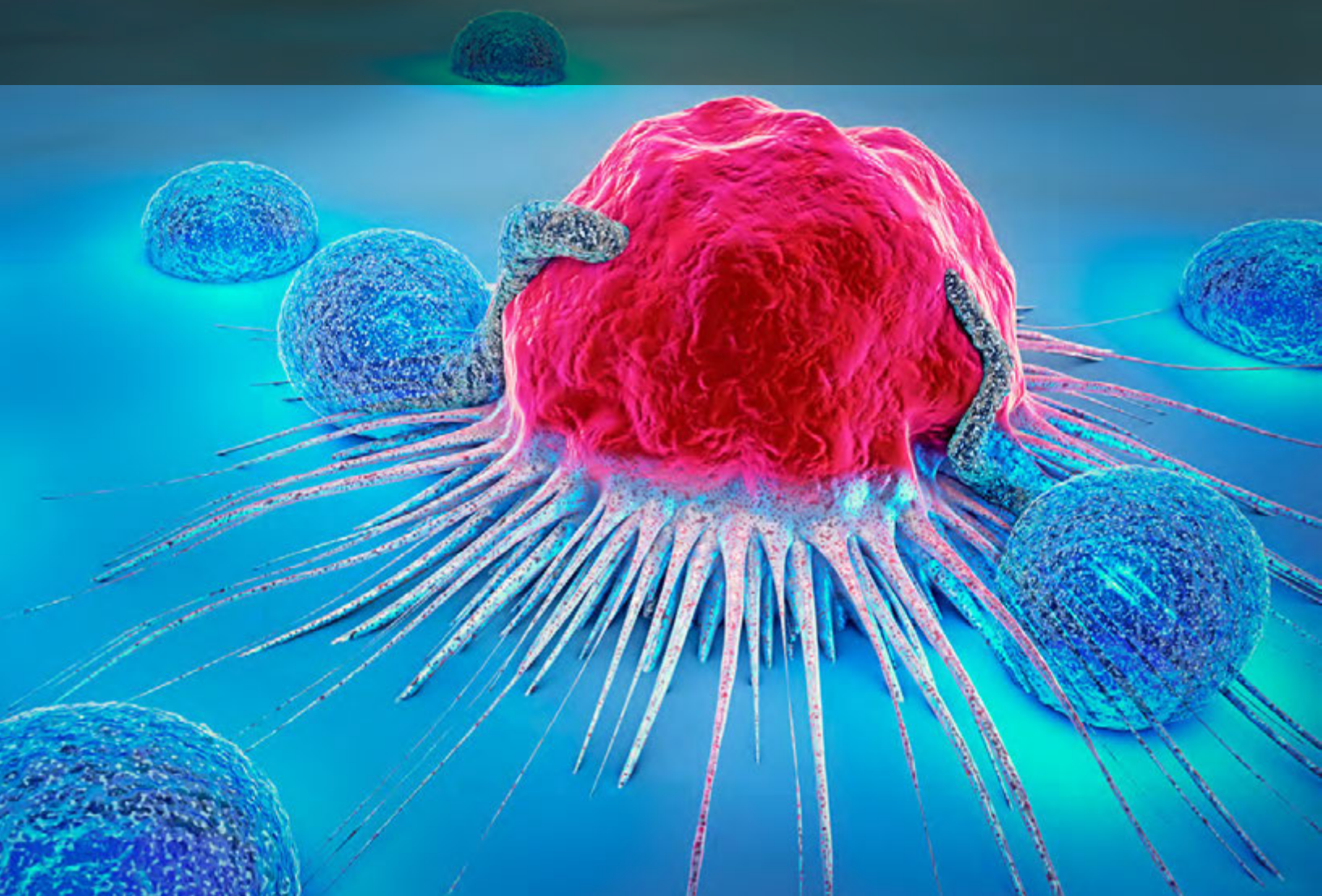


# Flow Cytometry Catalog | USA



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## Valued Customer,

In 1966, Danish doctor Niels Harboe founded Dako, which soon became a leading global manufacturer of antibody reagents. Agilent acquired Dako in 2012 as the cornerstone of its Diagnostics & Genomics Group (DGG). With the acquisition of ACEA Biosciences in 2018, Agilent attained a broader and complementary product offering, including a wider menu of antibody reagents and instrumentation.

Agilent is committed to delivering continuous innovation and outstanding standards for the advancement of the human condition, be it in products, services or support. As a leader in the life sciences, diagnostics and applied chemical industries, Agilent adds powerful capabilities to the Dako/ACEA's legacy, including additional resources in research and development, expanded investments, as well as multiple synergies with other product lines.

This catalog presents the Dako-branded portfolio of antibody reagents in a variety of conjugated fluorochromes and antigen targets. For the extended Agilent portfolio, please visit [www.agilent.com](http://www.agilent.com).

We are proud to be your partner-of-choice and look forward to a long-lasting, prolific relationship with our customers and collaborators around the globe.

Kindest regards,



Tom Just



**Tom Just**  
Vice President and General Manager  
Reagent Partnership Division  
Diagnostics and Genomics Group  
Agilent Technologies



# Alphabetical Index

Code	Source	Product	See chapter
<b>A</b>			
<b>Aminopeptidase N, see: CD13</b>			
<b>B</b>			
F711001-1	Mo a Hu	<b>B Cell/FITC</b> , Clone FMC7	ASR
F705301-1	Mo a Hu	<b>BCL2 Oncoprotein/FITC</b> , Clone 124	ASR
<b>C</b>			
R084101-1	Mo a Hu	<b>C3bi Receptor, CD11b/RPE</b> , Clone 2LPM19c <b>CALLA</b> , see: CD10	ASR
F714101-1	Mo a Hu	<b>CD1a/FITC</b> , Clone NA1/34	ASR
PR71050-1	Mo a Hu	<b>CD1a/PerCP-Cy5.5</b> , Clone NA1/34	ASR
R718901-1	Mo a Hu	<b>CD1a/RPE</b> , Clone NA1/34	ASR
R080701-1	Mo a Hu	<b>CD2/RPE</b> , Clone MT910	ASR
F081801-5	Mo a Hu	<b>CD3/FITC</b> , Clone UCHT1	IVD
PB98201-1	Mo a Hu	<b>CD3/PB</b> , Clone UCHT1	ASR
PR70201-1	Mo a Hu	<b>CD3/PerCP</b> , Clone UCHT1	ASR
R081001-5	Mo a Hu	<b>CD3/RPE</b> , Clone UCHT1	IVD
C706701-5	Mo a Hu	<b>CD3/RPE-Cy5</b> , Clone UCHT1	IVD
FR86650-5	Mo a Hu	<b>CD3/FITC</b> , Clone UCHT1 + <b>CD19/RPE</b> , Clone HD37, Dual-Color	IVD
C722601-1	Mo a Hu	<b>CD4/APC</b> , Clone MT310	ASR
F076601-5	Mo a Hu	<b>CD4/FITC</b> , Clone MT310	IVD
R080501-5	Mo a Hu	<b>CD4/RPE</b> , Clone MT310	IVD
FR86850-5	Mo a Hu	<b>CD4/FITC</b> , Clone MT310 + <b>CD8/RPE</b> , Clone DK25, Dual-Color	IVD
C724201-1	Mo a Hu	<b>CD5/APC</b> , Clone DK23	ASR
F079501-1	Mo a Hu	<b>CD5/FITC</b> , Clone DK23	ASR
R084201-1	Mo a Hu	<b>CD5/RPE</b> , Clone DK23	ASR
F727601-1	Mo a Hu	<b>CD7/FITC</b> , Clone CBC.37	ASR
PR71150-1	Mo a Hu	<b>CD7/PerCP-Cy5.5</b> , Clone CBC.37	ASR
R727701-1	Mo a Hu	<b>CD7/RPE</b> , Clone CBC.37	ASR
F078901-1	Mo a Hu	<b>CD7/FITC</b> , Clone DK24	ASR
C722701-1	Mo a Hu	<b>CD8/APC</b> , Clone DK25	ASR
F076501-1	Mo a Hu	<b>CD8/FITC</b> , Clone DK25	ASR
PB98401-1	Mo a Hu	<b>CD8/PB</b> , Clone DK25	ASR
R080601-5	Mo a Hu	<b>CD8/RPE</b> , Clone DK25	IVD
FR86850-5	Mo a Hu	<b>CD8/RPE</b> , Clone DK25 + <b>CD4/FITC</b> , Clone MT310, Dual-Color	IVD
F082601-1	Mo a Hu	<b>CD10/FITC</b> , Clone SS2/36	ASR
R084801-1	Mo a Hu	<b>CD10/RPE</b> , Clone SS2/36	ASR
R084101-1	Mo a Hu	<b>CD11b, C3bi Receptor/RPE</b> , Clone 2LPM19c <b>CD11b/CD18</b> , see: CD11b, C3bi Receptor	ASR
F071301-1	Mo a Hu	<b>CD11c, Protein 150,95/FITC</b> , Clone KB90 <b>CD11c/CD18</b> , see: CD11c, Protein 150,95	ASR

## Abbreviations:

a Anti-  
Gt Goat  
Hu Human  
Mo Mouse  
Rb Rabbit  
Sw Swine

## Labels:

APC Allophycocyanin  
FITC Fluorescein isothiocyanate  
PB Pacific blue  
PerCP Peridinin chlorophyll protein complex  
PerCP-Cy5.5 Peridinin chlorophyll protein complex-Cy5.5  
RPE R-phycoerythrin  
RPE-Cy5 R-phycoerythrin-Cy5

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Code	Source	Product	See chapter
F083101-1	Mo a Hu	<b>CD13/FITC</b> , Clone WM-47	ASR
R071501-1	Mo a Hu	<b>CD13/RPE</b> , Clone WM-47	ASR
F084401-1	Mo a Hu	<b>CD14/FITC</b> , Clone TÜK4	ASR
R086401-1	Mo a Hu	<b>CD14/RPE</b> , Clone TÜK4	ASR
FR70050-5	Mo a Hu	<b>CD14/RPE</b> , Clone TÜK4 + <b>CD45/FITC</b> , Clone T29/33, Dual-Color	IVD
F083001-1	Mo a Hu	<b>CD15/FITC</b> , Clone C3D-1	ASR
F701101-1	Mo a Hu	<b>CD16, Fc Gamma Receptor III/FITC</b> , Clone DJ130c	ASR
R701201-1	Mo a Hu	<b>CD16, Fc Gamma Receptor III/RPE</b> , Clone DJ130c	ASR
C722401-1	Mo a Hu	<b>CD19/APC</b> , Clone HD37	ASR
F076801-1	Mo a Hu	<b>CD19/FITC</b> , Clone HD37	ASR
PB98501-1	Mo a Hu	<b>CD19/PB</b> , Clone HD37	ASR
PR70350-1	Mo a Hu	<b>CD19/PerCP-Cy5.5</b> , Clone HD37	ASR
R080801-5	Mo a Hu	<b>CD19/RPE</b> , Clone HD37	IVD
C706601-5	Mo a Hu	<b>CD19/RPE-Cy5</b> , Clone HD37	IVD
FR86650-5	Mo a Hu	<b>CD19/RPE</b> , Clone HD37 + <b>CD3/FITC</b> , Clone UCHT1, Dual-Color	IVD
F079901-1	Mo a Hu	<b>CD20/FITC</b> , Clone B-Ly1	ASR
R701301-1	Mo a Hu	<b>CD20/RPE</b> , Clone B-Ly1	ASR
C728101-1	Mo a Hu	<b>CD22/APC</b> , Clone 4KB128	ASR
F706001-1	Mo a Hu	<b>CD22/FITC</b> , Clone 4KB128	ASR
PR70750-1	Mo a Hu	<b>CD22/PerCP-Cy5.5</b> , Clone 4KB128	ASR
R706101-1	Mo a Hu	<b>CD22/RPE</b> , Clone 4KB128	ASR
F706201-1	Mo a Hu	<b>CD23/FITC</b> , Clone MHM6	ASR
R710801-1	Mo a Hu	<b>CD23/RPE</b> , Clone MHM6	ASR
F713401-1	Mo a Hu	<b>CD24/FITC</b> , Clone SN3	ASR
F080101-1	Mo a Hu	<b>CD25, Interleukin-2 Receptor/FITC</b> , Clone ACT-1	ASR
R081101-1	Mo a Hu	<b>CD25, Interleukin-2 Receptor/RPE</b> , Clone ACT-1	ASR
F717801-8	Mo a Hu	<b>CD27/FITC</b> , Clone M-T271	RUO
R716401-8	Mo a Hu	<b>CD28/RPE</b> , Clone CD28.1	RUO
F084901-1	Mo a Hu	<b>CD30/FITC</b> , Clone Ber-H2	ASR
F083201-1	Mo a Hu	<b>CD33/FITC</b> , Clone WM-54	ASR
R074501-1	Mo a Hu	<b>CD33/RPE</b> , Clone WM-54	ASR
C723850-1	Mo a Hu	<b>CD34 Class III/APC</b> , Clone BIRMA-K3	ASR
F708101-1	Mo a Hu	<b>CD34 Class III/FITC</b> , Clone BIRMA-K3	ASR
PR70650-1	Mo a Hu	<b>CD34 Class III/PerCP-Cy5.5</b> , Clone BIRMA-K3	ASR
R712501-1	Mo a Hu	<b>CD34 Class III/RPE</b> , Clone BIRMA-K3	ASR
F710101-1	Mo a Hu	<b>CD38/FITC</b> , Clone AT13/5	ASR
R714401-1	Mo a Hu	<b>CD38/RPE</b> , Clone AT13/5	ASR
F708801-1	Mo a Hu	<b>CD41, Platelet Glycoprotein IIb/FITC</b> , Clone 5B12	ASR
R705801-1	Mo a Hu	<b>CD41, Platelet Glycoprotein IIb/RPE</b> , Clone 5B12	ASR
R701401-1	Mo a Hu	<b>CD42b, Platelet Glycoprotein Ib/RPE</b> , Clone AN51	ASR
F710201-1	Mo a Hu	<b>CD43/FITC</b> , Clone DF-T1	ASR
PR70101-1	Mo a Hu	<b>CD45, Leucocyte Common Antigen/PerCP</b> , Clone 2D1	ASR
C723001-1	Mo a Hu	<b>CD45, Leucocyte Common Antigen/APC</b> , Clone T29/33	ASR
F086101-1	Mo a Hu	<b>CD45, Leucocyte Common Antigen/FITC</b> , Clone T29/33	ASR
PB98601-1	Mo a Hu	<b>CD45, Leucocyte Common Antigen/PB</b> , Clone T29/33	ASR
R708701-1	Mo a Hu	<b>CD45, Leucocyte Common Antigen/RPE</b> , Clone T29/33	ASR
C709901-1	Mo a Hu	<b>CD45, Leucocyte Common Antigen/RPE-Cy5</b> , Clone T29/33	ASR
FR70050-5	Mo a Hu	<b>CD45/FITC</b> , Clone T29/33 + <b>CD14/RPE</b> , Clone TÜK4, Dual-Color	IVD
F080001-1	Mo a Hu	<b>CD45R0/FITC</b> , Clone UCHL1	ASR
R084301-1	Mo a Hu	<b>CD45R0/RPE</b> , Clone UCHL1	ASR
R708601-1	Mo a Hu	<b>CD45RA/RPE</b> , Clone 4KB5	ASR
F714301-8	Mo a Hu	<b>CD54, ICAM-1/FITC</b> , Clone 6.5B5	RUO
R725101-1	Mo a Hu	<b>CD56/RPE</b> , Clone C5.9	ASR
F727001-1	Mo a Hu	<b>CD57/FITC</b> , Clone TB01	ASR
C728001-1	Mo a Hu	<b>CD61, Platelet Glycoprotein IIIa/APC</b> , Clone Y2/51	ASR

## Alphabetical Index

Code	Source	Product	See chapter
F080301-1	Mo a Hu	<b>CD61, Platelet Glycoprotein IIIa/FITC</b> , Clone Y2/51	ASR
C727801-1	Mo a Hu	<b>CD64, Fc Gamma Receptor I/APC</b> , Clone 10.1	ASR
R721901-1	Mo a Hu	<b>CD64, Fc Gamma Receptor I/RPE</b> , Clone 10.1	ASR
F711201-1	Mo a Hu	<b>CD66abce/FITC</b> , Clone Kat4c	ASR
F713501-1	Mo a Hu	<b>CD68/FITC</b> , Clone KP1	ASR
F082901-1	Mo a Hu	<b>CD71, Transferrin Receptor/FITC</b> , Clone Ber-T9	ASR
C725201-1	Mo a Hu	<b>CD79acy/APC</b> , Clone HM57	ASR
R715901-1	Mo a Hu	<b>CD79acy/RPE</b> , Clone HM57	ASR
F713701-1	Mo a Hu	<b>CD79β/FITC</b> , Clone SN8	ASR
R727201-1	Mo a Hu	<b>CD79β/RPE</b> , Clone SN8	ASR
F713801-1	Mo a Hu	<b>CD103, Mucosa Lymphocyte Antigen/FITC</b> , Clone Ber-ACT8	ASR
R718801-1	Mo a Hu	<b>CD103, Mucosa Lymphocyte Antigen/RPE</b> , Clone Ber-ACT8	ASR
C724401-1	Mo a Hu	<b>CD117, c-kit/APC</b> , Clone 104D2	ASR
R714501-1	Mo a Hu	<b>CD117, c-kit/RPE</b> , Clone 104D2	ASR
		<b>CD117</b> , see also: c-kit	
C725601-1	Mo a Hu	<b>CD138/APC</b> , Clone MI15	ASR
R722901-1	Mo a Hu	<b>CD138/RPE</b> , Clone MI15	ASR
F087001-1	Mo a Hu	<b>CD235a, Glycophorin A/FITC</b> , Clone JC159	ASR
R707801-1	Mo a Hu	<b>CD235a, Glycophorin A/RPE</b> , Clone JC159	ASR
		<b>c-kit</b> , see also: CD117, c-kit	
		<b>Complement Receptor 3</b> , see: CD11b, C3bi Receptor	
		<b>Control Reagents</b> , see: Isotype/Control Reagents	
X093101-2		<b>Control Reagent, Mouse IgG1</b> , Unconjugated	IVD
<b>E</b>			
F086001-1	Mo a Hu	<b>Epithelial Antigen/FITC</b> , Clone Ber-EP4	ASR
<b>F</b>			
		<b>Fc Gamma Receptor I</b> , see: CD64, Fc Gamma Receptor I	
		<b>Fc Gamma Receptor III</b> , see: CD16, Fc Gamma Receptor III	
K231111-5		<b>Fixation and Permeabilization Kit for Flow Cytometry</b> , IntraStain (100 Tests)	IVD
<b>G</b>			
		<b>Glycophorin A</b> , see: CD235a, Glycophorin A	
		<b>Glycoprotein Ib</b> , see: CD42b, Platelet Glycoprotein Ib	
		<b>Glycoprotein IIb</b> , see: CD41, Platelet Glycoprotein IIb	
		<b>Glycoprotein IIIa</b> , see: CD61, Platelet Glycoprotein IIIa	
<b>H</b>			
R700001-1	Mo a Hu	<b>HLA-ABC Antigen/RPE</b> , Clone W6/32	ASR
F081701-1	Mo a Hu	<b>HLA-DP, DQ, DR Antigen/FITC</b> , Clone CR3/43	ASR
F726601-1	Mo a Hu	<b>HLA-DR Antigen/FITC</b> , Clone AB3	ASR
R726701-1	Mo a Hu	<b>HLA-DR Antigen/RPE</b> , Clone AB3	ASR
<b>I</b>			
		<b>ICAM-1</b> , see: CD54, ICAM-1	
F018801-1	Rb a Hu	<b>IgA/FITC</b> , Rabbit F(ab) <sub>2</sub>	ASR
F018901-1	Rb a Hu	<b>IgD/FITC</b> , Rabbit F(ab) <sub>2</sub>	ASR
R511201-1	Rb a Hu	<b>IgD/RPE</b> , Rabbit F(ab) <sub>2</sub>	ASR
F018501-1	Rb a Hu	<b>IgG/FITC</b> , Rabbit F(ab) <sub>2</sub>	ASR
F005801-1	Rb a Hu	<b>IgM/FITC</b> , Rabbit F(ab) <sub>2</sub>	ASR
R511101-1	Rb a Hu	<b>IgM/RPE</b> , Rabbit F(ab) <sub>2</sub>	ASR
F080101-1	Mo a Hu	<b>Interleukin-2 Receptor, CD25/FITC</b> , Clone ACT-1	ASR
R081101-1	Mo a Hu	<b>Interleukin-2 Receptor, CD25/RPE</b> , Clone ACT-1	ASR
K231111-5		<b>IntraStain</b> , Fixation and Permeabilization Kit for Flow Cytometry (100 Tests)	IVD
X096801-1		<b>Isotype Reagent, Mouse IgG1/APC</b>	ASR
X093301-1		<b>Isotype Reagent, Mouse IgG2a/FITC 25</b>	ASR
X095001-1		<b>Isotype Reagent, Mouse IgG2a/RPE 25</b>	ASR

## Alphabetical Index

Code	Source	Product	See chapter
<b>K</b>			
C022201-1	Rb a Hu	<b>Kappa Light Chains/APC</b> , Rabbit F(ab) <sub>2</sub>	ASR
F043401-1	Rb a Hu	<b>Kappa Light Chains/FITC</b> , Rabbit F(ab) <sub>2</sub>	ASR
R043601-1	Rb a Hu	<b>Kappa Light Chains/RPE</b> , Rabbit F(ab) <sub>2</sub>	ASR
F726801-1	Mo a Hu	<b>Ki-67 Antigen/FITC</b> , Clone MIB-1	ASR
		<b>KIT</b> , see: CD117, c-kit	
<b>L</b>			
F043501-1	Rb a Hu	<b>Lambda Light Chains/FITC</b> , Rabbit F(ab) <sub>2</sub>	ASR
PR71250-1	Rb a Hu	<b>Lambda Light Chains/PerCP-Cy5.5</b>	ASR
R043701-1	Rb a Hu	<b>Lambda Light Chains/RPE</b> , Rabbit F(ab) <sub>2</sub>	ASR
		<b>LeuCAMb</b> , see: CD11b, C3bi Receptor	
		<b>LeuCAMc</b> , see: CD11c, Protein 150,95	
		<b>Leucocyte Common Antigen</b> , see: CD45, Leucocyte Common Antigen	
		<b>Leukosialin</b> , see: CD43	
		<b>Lewis X Antigen</b> , see: CD15	
F037201-1	Rb a Hu	<b>Lysozyme EC 3.2.1.17/FITC</b>	ASR
<b>M</b>			
		<b>MHC-I</b> , see: HLA-ABC Antigen	
		<b>MHC-II</b> , see: HLA-DP, DQ, DR Antigen	
		<b>MIB-1</b> , see: Ki-67 Antigen, Clone MIB-1	
		<b>MLA</b> , see: CD103, Mucosa Lymphocyte Antigen	
X093101-2		<b>Mouse IgG1</b> , Control Reagent	IVD
X096801-1		<b>Mouse IgG1/APC</b> , Isotype Reagent	ASR
X092701-5		<b>Mouse IgG1/FITC</b> , Control Reagent	IVD
X092801-5		<b>Mouse IgG1/RPE</b> , Control Reagent	IVD
X095501-5		<b>Mouse IgG1/RPE-Cy5</b> , Control Reagent	IVD
X093301-1		<b>Mouse IgG2a/FITC</b> , Isotype Reagent	ASR
X095001-1		<b>Mouse IgG2a/RPE</b> , Isotype Reagent	ASR
F047902-2	Gt a	<b>Mouse Immunoglobulins/FITC</b> , Goat F(ab) <sub>2</sub>	IVD
R048001-2	Gt a	<b>Mouse Immunoglobulins/RPE</b> , Goat F(ab) <sub>2</sub>	IVD
F031302-2	Rb a	<b>Mouse Immunoglobulins/FITC</b> , Rabbit F(ab) <sub>2</sub>	IVD
R043901-2	Rb a	<b>Mouse Immunoglobulins/RPE</b> , Rabbit F(ab) <sub>2</sub>	IVD
		<b>Mucosa Lymphocyte Antigen (MLA)</b> , see: CD103, Mucosa Lymphocyte Antigen (MLA)	
		<b>Muramidase</b> , see: Lysozyme EC 3.2.1.17	
C724601-1	Mo a Hu	<b>Myeloperoxidase/APC</b> , Clone MPO-7	ASR
F071401-1	Mo a Hu	<b>Myeloperoxidase/FITC</b> , Clone MPO-7	ASR
PR70450-1	Mo a Hu	<b>Myeloperoxidase/PerCP-Cy5.5</b> , Clone MPO-7	ASR
R720901-1	Mo a Hu	<b>Myeloperoxidase/RPE</b> , Clone MPO-7	ASR
<b>N</b>			
X092701-5		<b>Negative Control, Mouse IgG1/FITC 25</b>	IVD
X092801-5		<b>Negative Control, Mouse IgG1/RPE 25</b>	IVD
X095501-5		<b>Negative Control, Mouse IgG1/RPE-Cy5</b>	IVD
		<b>Neutral Endopeptidase 24.11</b> , see: CD10	
<b>P</b>			
K231111-5		<b>Permeabilization and Fixation Kit</b> for Flow Cytometry, IntraStain (100 Tests)	IVD
S302430-2		<b>Phosphate-Buffered Saline (PBS)</b> , pH 7.0 (6 x 1 L)	IVD
F714901-1	Mo a Hu	<b>Plasma Cell/FITC</b> , Clone VS38c	ASR
F710101-1	Mo a Hu	<b>Plasma Cell, CD38/FITC</b> , Clone AT13/5	ASR
R714401-1	Mo a Hu	<b>Plasma Cell, CD38/RPE</b> , Clone AT13/5	ASR
		<b>Plasma Cell</b> , see also: CD138, Clone MI15	
		<b>Platelet Glycoprotein Ib</b> , see: CD42b, Platelet Glycoprotein Ib	
		<b>Platelet Glycoprotein IIb</b> , see: CD41, Platelet Glycoprotein IIb	
		<b>Platelet Glycoprotein IIIa</b> , see: CD61, Platelet Glycoprotein IIIa	



## Alphabetical Index

Code	Source	Product	See chapter
PR71350-1	Mo a Hu	<b>Plasma Cell/PerCP-Cy5.5</b> , Clone VS38c	ASR
K532711-8		<b>PNA Telomere Kit/FITC</b> (20 Duplicate Tests)	RUO
F071301-1	Mo a Hu	<b>Protein 150,95, CD11c/FITC</b> , Clone KB90	ASR
<b>Q</b>			
K007811-8		<b>QIFIKIT®</b> (10 Calibrations)	RUO
<b>R</b>			
X099801-1		<b>Rabbit Ig Reagent</b> , Rabbit F(ab) <sub>2</sub> /APC	ASR
X092901-1		<b>Rabbit Ig Reagent</b> , Rabbit F(ab) <sub>2</sub> /FITC	ASR
X093001-1		<b>Rabbit Ig Reagent</b> , Rabbit F(ab) <sub>2</sub> /RPE	ASR
<b>S</b>			
		<b>Sialophorin</b> , see: CD43	
		<b>Syndecan-1</b> , see: CD138	
<b>T</b>			
		<b>TdT</b> , see: Terminal Deoxynucleotidyl Transferase	
K532711-8		<b>Telomere PNA Kit/FITC</b> (20 Tests)	RUO
F713950-1	Mo a Hu	<b>Terminal Deoxynucleotidyl Transferase/FITC</b> , Clone HT-6	ASR
F082901-1	Mo a Hu	<b>Transferrin Receptor, CD71/FITC</b> , Clone Ber-T9	ASR



# General Product Information

## – Reagents & Kits

### Monoclonal Antibodies

We produce a wide range of monoclonal mouse antibodies which have been carefully selected on the basis of its value, either for research or for the analysis of pathological human cells by immunohistochemistry or flow cytometry.

**Tissue Culture Antibodies.** With only a few exceptions, our monoclonal antibodies are produced in tissue culture. This gives advantages in the use of the antibodies. For example, background problems are virtually absent with such reagents because all the mouse immunoglobulin molecules are directed against the target antigen.

**Specificity.** Our monoclonal antibodies are extensively screened on a multitude of tissue sections or other relevant biological material to ascertain that they possess the necessary specificity and give consistent, strong labeling reactions.

**Solvent.** Our monoclonal antibodies are, generally, supplied in the liquid form. The majority of unconjugated antibodies are supplied as tissue culture supernatants containing 0.05 mol/L Tris/HCl, pH 7.2, and 15 mmol/L sodium azide. The azide can be removed by dialysis or gel filtration if it interferes with the use of the antibody. However, after removal of the azide, the antibody must be stored frozen.

**Storage.** 2-8 °C.

The products require no hazard labeling.

**Further Information.** Package inserts for reagents and kits can be found here: [www.agilent.com/library/eifu](http://www.agilent.com/library/eifu). The package inserts state intended use, clone, isotype, specificity, as well as recommended staining procedure when applicable.

### Polyclonal Antibodies

Since 1966, we have produced polyclonal antibodies and our portfolio is constantly growing. Extensive knowledge of protein chemistry and immunochemistry, careful selection of animals for immunization, and optimal, long-term immunization schemes form the basis of our high quality products.

**Advantages of Rabbit Polyclonal Antibodies.** Human antibodies reacting with rabbit immunoglobulins occur rarely. Therefore, rabbit antibodies can be used without risk of non-specific binding even in very sensitive techniques.

**Low Batch-to-Batch Variation.** Our batches of polyclonal antibodies consist of the pooled sera from a large number of animals. This method eliminates the presence of a single predominating atypical antibody and therefore leads to a minimal batch-to-batch variation.

**Immunoglobulin fractions.** Our polyclonal antibodies are offered in the form of immunoglobulin fractions, with a few exceptions.

**Specificity.** Monospecificity of our polyclonal antibodies is obtained by the use of highly purified antigens for immunization. Traces of unwanted antibodies are removed by liquid or solid-phase absorption.

**Affinity-isolated antibodies.** Our antibodies are prepared by immuneaffinity chromatography, using antigens coupled to a solid matrix. The elution and adsorption techniques used guarantee antibodies of high affinity.

**F(ab)<sub>2</sub>.** We also provide antibodies lacking the Fc region. These F(ab)<sub>2</sub> fragments are derived from full-length antibody by proteolytic cleavage and carry the antigen binding region. The antigen binding fragment is purified by chromatographic methods to ensure consistent high purity and quality.

## Fluorochrome-Conjugated Antibodies for Flow Cytometry

### Characterization of Allophycocyanin (APC) Conjugates.

Purified monoclonal antibodies or F(ab')<sub>2</sub> fragments of affinity-isolated antibodies are conjugated with cross-linked allophycocyanin (APC). After conjugation, unreacted APC and unreacted antibodies are completely removed by gel filtration. The molar APC/antibody ratio is approximately 1. APC conjugates can be excited at 633 nm or 635 nm (red lasers), and emit light at 660 nm.

### Characterization of Fluorescein (FITC) Conjugates.

Purified monoclonal antibodies or F(ab')<sub>2</sub> fragments of affinity-isolated polyclonal antibodies are conjugated with fluorescein isothiocyanate isomer 1 (FITC). After conjugation, unreacted FITC is completely removed by gel filtration. The molar FITC/antibody ratio is approximately 4. FITC conjugates can be excited at 488 nm (blue laser) and emit light at 530 nm.

**Characterization of Pacific Blue (PB) Conjugates.** Purified monoclonal antibodies are conjugated with Pacific Blue (PB)\*. After conjugation, unreacted PB is completely removed by gel filtration. The molar PB/ab ratio is approximately 6. PB conjugates can be excited at 406 nm (violet laser) and emit light at 456 nm.

### Characterization of Peridinin Chlorophyll Protein (PerCP) Conjugates.

Purified monoclonal antibodies or F(ab')<sub>2</sub> fragments of affinity-isolated polyclonal antibodies are conjugated with Peridinin Chlorophyll Protein (PerCP). After conjugation, unreacted PerCP is completely removed by gel filtration. The molar PerCP/antibody ratio is approximately 2. PerCP conjugates can be excited at 488 nm (blue laser) and emit light at 676 nm.

### Characterization of Peridinin Chlorophyll Protein Complex-Cy5.5 (PerCP-Cy5.5) Conjugates.

Purified monoclonal antibodies are conjugated with an energy transfer fluorochrome (PerCP-Cy5.5) consisting of a cyanine dye, Cy5.5, covalently coupled to Peridinin

Chlorophyll Protein Complex (PerCP). The excitation energy, absorbed at 488 nm by PerCP is transferred to Cy5.5, which emits light at 695 nm. After conjugation, unreacted PerCP-Cy5.5 complex and unreacted antibodies are completely removed by gel filtration. The molar PerCP-Cy5.5/antibody ratio of the conjugate is approximately 1.

### Characterization of R-Phycoerythrin (RPE) Conjugates.

Purified monoclonal antibodies or F(ab')<sub>2</sub> fragments of affinity-isolated polyclonal antibodies are conjugated with R-phycoerythrin (RPE). After conjugation, unreacted RPE and unreacted antibodies are completely removed by gel filtration. The molar RPE/antibody ratio is approximately 1. RPE conjugates can be excited at 488 nm (blue laser) and emit light at 570 nm.

### Characterization of R-Phycoerythrin-Cy5 (RPE-Cy5) Conjugates.

Purified monoclonal antibodies are conjugated with an energy transfer fluorochrome (RPE-Cy5) consisting of a cyanine dye, Cy5, covalently coupled to R-phycoerythrin (RPE). The excitation energy, absorbed at 488 nm by RPE, is transferred to Cy5, which emits light at 670 nm. After conjugation, unreacted RPE-Cy5-complex and unreacted antibodies are completely removed by gel filtration. The molar RPE-Cy5/antibody ratio of the conjugate is approximate<sup>1</sup>. Please note that RPE-Cy5 conjugates may bind to monocytes resulting in background staining (1).

**Performance Testing.** All conjugates are thoroughly tested to confirm optimal performance in flow cytometry.

**Solvent.** The fluorochrome conjugates are offered in liquid form in buffer, containing 15 mmol/L sodium azide and 1% bovine serum albumin.

\* The Pacific Blue™ antibody conjugates are sold under license from Life Technologies Corporation.

#### References

1. van Vugt MJ, van den Herik-Oudijk IE, van de Winkel JGJ. Binding of PE-Cy5 conjugates to the human high-affinity receptor for IgG (CD64). *Blood* 1996;88:2358-61.

# Analyte Specific Reagents | ASR\*

Antibody reagents labeled as ASR have not had analytical and performance characteristics established by the manufacturer. These reagents are used to detect a single ligand or target but do not contain analytical and clinical performance specifications.

## Single-Color Reagents

Our range of fluorochrome-conjugated antibodies includes both polyclonal and monoclonal antibodies conjugated with either APC, FITC, PB, PerCP, PerCP-Cy5.5, RPE or RPE-Cy5. Reagents are supplied in liquid form with sodium azide as preservative. All conjugated monoclonal antibodies have been prepared from purified antibodies, while the majority of the polyclonal antibodies are affinity-isolated F(ab)<sub>2</sub> fragments.

## Isotype Reagents

Our mouse isotype reagents are based on monoclonal mouse antibodies of different isotypes, and unless indicated otherwise, directed towards *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. The reagents are provided as conjugated, purified antibodies. Our rabbit antibody controls have been prepared from the serum of nonimmunized rabbits. The reagents have been processed in the same way as our conjugated, solid-phase absorbed F(ab)<sub>2</sub> fragment rabbit antibodies.



### Ensuring reliability, consistency and leading production standards

Our unique ability to develop and manufacture polyclonal antibodies is grounded on a high-yielding rabbit population, which has been bred over the past 50 years – and is the foundation of our brand and identity of our products, such as our anti-human light chains reagents.

\* ASR: Analyte specific reagent. Analytical and performance characteristics are not established.

# Overview Tables | ASR

## Overview, Single-Color Reagents, ASR

Antibody Description		Available Form/Code						
Anti-Human	Clone	APC	FITC	PB	PerCP	PerCP-Cy5.5	RPE	RPE-Cy5
B Cell	FMC7		F711001-1					
<b>BCL2 Oncoprotein</b>	124		F705301-1					
CD1a	NA1/34		F714101-1			PR71050-1	R718901-1	
CD2	MT910						R080701-1	
CD3	UCHT1			PB98201-1	PR70201-1			
CD4	MT310	C722601-1						
CD5	DK23	C724201-1	F079501-1				R084201-1	
CD7	CBC.37		F727601-1			PR71150-1	R727701-1	
CD7	DK24		F078901-1					
CD8	DK25	C722701-1	F076501-1	PB98401-1				
CD10	SS2/36		F082601-1				R084801-1	
CD11b	2LPM19c						R084101-1	
CD11c	KB90		F071301-1					
CD13	WM-47		F083101-1				R071501-1	
CD14	TÜK4		F084401-1				R086401-1	
CD15	C3D-1		F083001-1					
CD16	DJ130c		F701101-1				R701201-1	
CD19	HD37	C722401-1	F076801-1	PB98501-1		PR70350-1		
CD20	B-Ly1		F079901-1				R701301-1	
CD22	4KB128	C728101-1	F706001-1			PR70750-1	R706101-1	
CD23	MHM6		F706201-1				R710801-1	
CD24	SN3		F713401-1					
CD25	ACT-1		F080101-1				R081101-1	
CD30	Ber-H2		F084901-1					
CD33	WM-54		F083201-1				R074501-1	
CD34 Class III	BIRMA-K3	C723850-1	F708101-1			PR70650-1	R712501-1	
CD38	AT13/5		F710101-1				R714401-1	
CD41	5B12		F708801-1				R705801-1	
CD42b	AN51						R701401-1	
CD43	DF-T1		F710201-1					
CD45	2D1				PR70101-1			
CD45	T29/33	C723001-1	F086101-1	PB98601-1			R708701-1	C709901-1
CD45R0	UCHL1		F080001-1				R084301-1	
CD45RA	4KB5						R708601-1	
CD56	C5.9						R725101-1	
CD57	TB01		F727001-1					
CD61	Y2/51	C728001-1	F080301-1					
CD64	10.1	C727801-1					R721901-1	
CD66abce	Kat4c		F711201-1					
CD68	KP1		F713501-1					
CD71	Ber-T9		F082901-1					
CD79acy	HM57	C725201-1					R715901-1	
CD79β	SN8		F713701-1				R727201-1	
CD103	Ber-ACT8		F713801-1				R718801-1	
CD117	104D2	C724401-1					R714501-1	

## Overview, Single-Color Reagents, ASR (continued)

Antibody Description		Available Form/Code						
Anti-Human	Clone	APC	FITC	PB	PerCP	PerCP-Cy5.5	RPE	RPE-Cy5
<b>CD138</b>	MI15	C725601-1					R722901-1	
<b>CD235a</b>	JC159		F087001-1				R707801-1	
<b>Epithelial Antigen</b>	Ber-EP4		F086001-1					
<b>HLA-ABC Antigen</b>	W6/32						R700001-1	
<b>HLA-DP, DQ, DR Antigen</b>	CR3/43		F081701-1					
<b>HLA-DR Antigen</b>	AB3		F726601-1				R726701-1	
<b>IgA*</b>	Polyclonal Rabbit		F018801-1					
<b>IgD*</b>	Polyclonal Rabbit		F018901-1				R511201-1	
<b>IgG*</b>	Polyclonal Rabbit		F018501-1					
<b>IgM*</b>	Polyclonal Rabbit		F005801-1				R511101-1	
<b>Kappa Light Chains*</b>	Polyclonal Rabbit	C022201-1	F043401-1				R043601-1	
<b>Ki-67 Antigen</b>	MIB-1		F726801-1					
<b>Lambda Light Chains*</b>	Polyclonal Rabbit		F043501-1			PR71250-1	R043701-1	
<b>Lysozyme</b>	Polyclonal Rabbit		F037201-1					
<b>Myeloperoxidase</b>	MPO-7	C724601-1	F071401-1			PR70450-1	R720901-1	
<b>Plasma Cell</b>	VS38c		F714901-1			PR71350-1		
<b>Terminal Deoxynucleotidyl Transferase</b>	HT-6		F713950-1					

\* F(ab)<sub>2</sub> fragment of affinity-isolated antibody

## Overview, Isotype Reagents, ASR

	Available Form/Code			
	APC	FITC	RPE	RPE-Cy5
<b>Mouse IgG1</b>	X096801-1			
<b>Mouse IgG2a</b>		X093301-1	X095001-1	
<b>Rabbit F(ab)<sub>2</sub></b>	X099801-1	X092901-1	X093001-1	

# Description Tables | ASR

## Single-Color Reagents, ASR

<b>Monoclonal Mouse Anti-Human B Cell</b> Clone: FMC7 • Isotype: IgM, kappa			
<b>ASR</b>	<b>F711001-1</b>	FITC. Purified	1 mL

The target for this antibody is probably a conformational epitope on CD20. The antibody labels a subpopulation of functionally mature B cells.

<b>Monoclonal Mouse Anti-Human BCL2 Oncoprotein</b> Clone: 124 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F705301-1</b>	FITC. Purified	1 mL

Reacts with the BCL2 oncoprotein encoded by a gene involved in the t(14;18) chromosomal translocation. The BCL2 oncoprotein plays a central role in apoptosis (programmed cell death), acting as an inhibitor of the apoptotic process, and it has given name to a family of proteins engaged in the promotion/inhibition of apoptosis (1).

Reference:

1. Chao DT, Korsmeyer SJ. BCL-2 family: regulators of cell death. *Annu Rev Immunol* 1998;16:395-419.

<b>C3bi Receptor</b>			
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See: CD11b, C3bi Receptor

<b>Monoclonal Mouse Anti-Human CD1a</b> Clone: NA1/34 • Isotype: IgG2a, kappa			
<b>ASR</b>	<b>F714101-1</b>	FITC. Purified	1 mL

<b>ASR</b>	<b>PR71050-1</b>	PerCP-Cy5.5. Purified	0.5 mL
<b>ASR</b>	<b>R718901-1</b>	RPE. Purified	1 mL

The CD1a antigen is a transmembrane  $\alpha$ -chain non-covalently associated with  $\beta$ -2-microglobulin. CD1a is expressed by cortical thymocytes and Langerhans' cells in normal, dysplastic and neoplastic tissue.

<b>Monoclonal Mouse Anti-Human CD2</b> Clone: MT910 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>R080701-1</b>	RPE. Purified	1 mL

Reacts with virtually all thymocytes, T lymphocytes and NK cells. CD2 is a pan T-cell marker.

<b>Monoclonal Mouse Anti-Human CD3</b> Clone: UCHT1 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>PB98201-1</b>	Pacific Blue. Purified	1 mL

<b>ASR</b>	<b>PR70201-1</b>	PerCP. Purified	1 mL
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Anti-CD3, UCHT1, reacts with the  $\epsilon$ -chain of the CD3 part of the TCR/CD3 complex. CD3 is a pan-T marker.

<b>Monoclonal Mouse Anti-Human CD4</b> Clone: MT310 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C722601-1</b>	APC. Purified	1 mL

CD4 is a 55 kDa transmembrane glycoprotein expressed by helper/inducer T cells, 55-65% of mature peripheral blood T cells and by thymocyte subsets. CD4 is also expressed by monocytes/macrophages, Langerhans' cells and other dendritic cells. CD4 is not expressed by B cells.

<b>Monoclonal Mouse Anti-Human CD5</b> Clone: DK23 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C724201-1</b>	APC. Purified	1 mL

<b>ASR</b>	<b>F079501-1</b>	FITC. Purified	1 mL
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<b>ASR</b>	<b>R084201-1</b>	RPE. Purified	1 mL
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CD5 is a 67 kDa transmembrane glycoprotein. CD5 appears early in thymocyte development, and is expressed at low density on thymocytes and at high density on all mature T lymphocytes. CD5 is also expressed on a subpopulation of normal B cells. A review on CD5+ B cells is given in reference 1.

Reference:

1. Hardy RR, Hayakawa K. CD5 B-cells, a fetal B-cell lineage. *Adv Immunol* 1994;55:297-339.

<b>Monoclonal Mouse Anti-Human CD7</b> Clone: CBC.37 • Isotype: IgG2b, kappa			
<b>ASR</b>	<b>F727601-1</b>	FITC. Purified	1 mL

<b>ASR</b>	<b>PR71150-1</b>	PerCP-Cy5.5. Purified	0.5 mL
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<b>ASR</b>	<b>R727701-1</b>	RPE. Purified	1 mL
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CD7 is a 40 kDa membrane-bound glycoprotein expressed on thymocytes, mature T cells, a large majority of natural killer cells, pluripotent hematopoietic stem cells, and progenitor cells of lymphoid and myeloid cells. CD7 is the earliest T-cell specific antigen to be expressed by lymphocytes and the only early marker to persist throughout differentiation.

<b>Monoclonal Mouse Anti-Human CD7</b> Clone: DK24 • Isotype: IgG2b, kappa			
<b>ASR</b>	<b>F078901-1</b>	FITC. Purified	1 mL

CD7 is a 40 kDa membrane-bound glycoprotein expressed on thymocytes, mature T cells, a large majority of natural killer cells, pluripotent hematopoietic stem cells, and progenitor cells of lymphoid and myeloid cells. CD7 is the earliest T-cell specific antigen to be expressed by lymphocytes and the only early marker to persist throughout differentiation.

## Single-Color Reagents, ASR

<b>Monoclonal Mouse Anti-Human CD8</b> Clone: DK25 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C722701-1</b>	APC. Purified	1 mL
<b>ASR</b>	<b>F076501-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>PB98401-1</b>	Pacific Blue. Purified	1 mL

CD8 is a 68 kDa transmembrane glycoprotein expressed by class I major histocompatibility complex restricted, mature suppressor/cytotoxic T cells, the great majority of cortical thymocytes and approximately 30% of medullary thymocytes. In addition a proportion of  $\gamma\delta$  T cells and NK cells express CD8.

<b>Monoclonal Mouse Anti-Human CD10</b> Clone: SS2/36 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F082601-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R084801-1</b>	RPE. Purified	1 mL

CD10 is a 100 kDa transmembrane protein. CD10 is expressed on immature T and B-precursor cells but is lost as the cells reach maturation.

<b>Monoclonal Mouse Anti-Human CD11b, C3bi Receptor</b> Clone: 2LPM19c • Isotype: IgG1, kappa			
<b>ASR</b>	<b>R084101-1</b>	RPE. Purified	1 mL

Reacts specifically with a leucocyte surface receptor (CR3) for the C3bi complement fragment. CD11b is expressed by most granulocytes and monocytes as well as a subpopulation of 'null cell' peripheral lymphocytes containing most of the circulating natural killer cells. CD11b (Mac-1) is the specific  $\alpha$ -chain in the CD11b/CD18 molecule, which is a member of the LFA-1 and  $\beta$ 2 integrin subfamilies.

<b>Monoclonal Mouse Anti-Human CD11c, Protein 150,95</b> Clone: KB90 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F071301-1</b>	FITC. Purified	1 mL

The antibody is directed against the CD11c chain of the CD11c/CD18 protein, which is an adhesion molecule of integrin type (integrin  $\alpha$ X $\beta$ 2). An alternative name is complement receptor type 4 or CR4. CD11c is expressed by a variety of cells, including granulocytes, monocytes, macrophages, NK cells and dendritic cells.

<b>Monoclonal Mouse Anti-Human CD13</b> Clone: WM-47 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F083101-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R071501-1</b>	RPE. Purified	1 mL

CD13 is identical to aminopeptidase N. CD13 is expressed by committed granulocyte-monocyte progenitor (CFU-GM) cells, and normal granulocytic and monocytic cells at all stages of differentiation. Lymphocytes and platelets do not express CD13.

<b>Monoclonal Mouse Anti-Human CD14</b> Clone: TÚK4 • Isotype: IgG2a, kappa			
<b>ASR</b>	<b>F084401-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R086401-1</b>	RPE. Purified	1 mL

CD14 is a 55 kDa protein, which functions as a receptor for the complex of lipopolysaccharide (LPS) and LPS-binding protein (LPB). CD14 is primarily expressed on monocytes and macrophages.

Reference:

1. Wright SD, Ramos RA, Tobias PS, Ulevitch RJ, Mathison JC. CD14, a receptor for complexes of lipopolysaccharide (LPS) and LPS binding protein. *Science* 1990;249:1431-3.

<b>Monoclonal Mouse Anti-Human CD15</b> Clone: C3D-1 • Isotype: IgM, kappa			
<b>ASR</b>	<b>F083001-1</b>	FITC. Purified	1 mL

Reacts with an oligosaccharide termed Lewis X ( $Le^x$ ), or CD15, found on mature granulocytes and monocytes.

<b>Monoclonal Mouse Anti-Human CD16, Fc Gamma Receptor III</b> Clone: DJ130c • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F701101-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R701201-1</b>	RPE. Purified	1 mL

Reacts with an antigen (FcyRIII) present on NK cells, neutrophils and basophils in peripheral blood and bone marrow.

<b>Monoclonal Mouse Anti-Human CD19</b> Clone: HD37 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C722401-1</b>	APC. Purified	1 mL
<b>ASR</b>	<b>F076801-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>PB98501-1</b>	Pacific Blue. Purified	1 mL
<b>ASR</b>	<b>PR70350-1</b>	PerCP-Cy5.5. Purified	0.5 mL

CD19 is the broadest lineage-specific surface marker for B cells. CD19 is present on the surface of virtually all B lymphocytes, including early B progenitor cells, but it is lost upon terminal differentiation to plasma cells (1). CD19 is also expressed on follicular dendritic cells.

References:

1. Sato S, Tedder TF. BC3. CD19 workshop panel report. In: Kishimoto T, Kikutani H, von dem Borne AEG, Goyert SM, Mason DY, Miyasaka M, et al., editors. *Leucocyte typing VI. White cell differentiation antigens. Proceedings of the 6th International Workshop and Conference*; 1996 Nov 10-14; Kobe, Japan. New York, London: Garland Publishing Inc.; 1997. p. 133-5.



## Single-Color Reagents, ASR

<b>Monoclonal Mouse Anti-Human CD20</b> Clone: B-Ly1 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F079901-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R701301-1</b>	RPE. Purified	1 mL

Reacts with an epitope located on the surface of B cells. CD20 appears early during B-cell maturation and is lost shortly before the terminal plasma cell stage.

<b>Monoclonal Mouse Anti-Human CD22</b> Clone: 4KB128 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C728101-1</b>	APC. Purified	1 mL
<b>ASR</b>	<b>F706001-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>PR70750-1</b>	PerCP-Cy5.5. Purified	0.5 mL
<b>ASR</b>	<b>R706101-1</b>	RPE. Purified	1 mL

CD22 appears in the cytoplasm of late pro and early pre-B cells and on the surface of mature B lymphocytes. CD22 is a pan-B marker of normal and neoplastic B cells in peripheral blood.

<b>Monoclonal Mouse Anti-Human CD23</b> Clone: MHM6 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F706201-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R710801-1</b>	RPE. Purified	1 mL

CD23, the low affinity IgE (Fc-epsilon) receptor, is a glycoprotein present on a subpopulation of B lymphocytes in germinal centres. CD23 is also expressed on monocytes and dendritic cells.

<b>Monoclonal Mouse Anti-Human CD24</b> Clone: SN3 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F713401-1</b>	FITC. Purified	1 mL

Reacts with an antigen expressed at multiple stages of B-cell development, beginning with early progenitor cells and continuing through maturation. The antigen is lost as cells differentiate to plasma cells.

<b>Monoclonal Mouse Anti-Human CD25, Interleukin-2 Receptor</b> Clone: ACT-1 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F080101-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R081101-1</b>	RPE. Purified	1 mL

CD25 is the low-affinity  $\alpha$ -chain of the interleukin-2 receptor that has at least 3 subunits ( $\alpha$ ,  $\beta$ ,  $\gamma$ ). The CD25 antigen is expressed on activated T and B cells and activated macrophages.

<b>Monoclonal Mouse Anti-Human CD30</b> Clone: Ber-H2 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F084901-1</b>	FITC. Purified	1 mL

CD30 is expressed by activated, but not resting, T and B cells.

<b>Monoclonal Mouse Anti-Human CD33</b> Clone: WM-54 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F083201-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R074501-1</b>	RPE. Purified	1 mL

CD33 is a member of the Siglec family (sialic acid binding Ig-like lectins) and is also referred to as Siglec-3. The main cellular expression of CD33 is in myeloid progenitors, monocytes/macrophages and in granulocyte progenitors, while the expression is low in mature granulocytes. The fluorescence intensity of RPE conjugates is, generally, somewhat higher than that of corresponding FITC conjugates.

<b>Monoclonal Mouse Anti-Human CD34 Class III</b> Clone: BIRMA-K3 • Isotype: G1, kappa			
<b>ASR</b>	<b>C723850-1</b>	APC. Purified	0.5 mL
<b>ASR</b>	<b>F708101-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>PR70650-1</b>	PerCP-Cy5.5 Purified	0.5 mL
<b>ASR</b>	<b>R712501-1</b>	RPE. Purified	1 mL

Reacts with an antigen present on immature hematopoietic cells.

<b>Monoclonal Mouse Anti-Human CD38</b> Clone: AT13/5 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F710101-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R714401-1</b>	RPE. Purified	1 mL

CD38 is expressed on plasma cells, on early cells of B and T cell lineages, and on activated B and T cells. Approximately 60% of peripheral blood mononuclear CD34+ cells express CD38. The least mature CD34+ cells are characterized by a lack of CD38.

<b>Monoclonal Mouse Anti-Human CD41, Platelet Glycoprotein IIb</b> Clone: 5B12 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F708801-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R705801-1</b>	RPE. Purified	1 mL

CD41 is a 135 kDa protein which is a selective marker of platelets and platelet precursors.

<b>Monoclonal Mouse Anti-Human CD42b, Platelet Glycoprotein Ib</b> Clone: AN51 • Isotype: IgG2a, kappa			
<b>ASR</b>	<b>R701401-1</b>	RPE. Purified	1 mL

CD42b is a 145 kDa protein restricted to platelets and megakaryocytes. CD42a, CD42b, CD42c and CD42d form a complex in the platelet plasma membrane which serves as a receptor for von Willebrand factor and thrombin, and mediates adhesion of platelets to subendothelial matrices exposed upon damage to the endothelium. The binding sites for von Willebrand factor and thrombin lies on CD42b.

## Single-Color Reagents, ASR

Monoclonal Mouse Anti-Human <b>CD43</b> Clone: DF-T1 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F710201-1</b>	FITC. Purified	1 mL

Reacts with a heavily glycosylated transmembrane protein, also called leucosialin. CD43 is expressed on virtually all leucocytes.

Monoclonal Mouse Anti-Human <b>CD45, Leucocyte Common Antigen</b> Clone: 2D1 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>PR70101-1</b>	PerCP. Purified	1 mL

Labels the cell membrane of almost all leucocytes. The expression of CD45 on the surface of mature granulocytes is less than that of lymphocytes.

Monoclonal Mouse Anti-Human <b>CD45, Leucocyte Common Antigen</b> Clone: T29/33 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C723001-1</b>	APC. Purified	1 mL
<b>ASR</b>	<b>F086101-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>PB98601-1</b>	Pacific Blue. Purified	1 mL
<b>ASR</b>	<b>R708701-1</b>	RPE. Purified	1 mL
<b>ASR</b>	<b>C709901-1</b>	RPE-Cy5. Purified	1 mL

Labels the cell membrane of almost all leucocytes. The expression of CD45 on the surface of mature granulocytes is less than that of lymphocytes.

Monoclonal Mouse Anti-Human <b>CD45R0</b> Clone: UCHL1 • Isotype: IgG2a, kappa			
<b>ASR</b>	<b>F080001-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R084301-1</b>	RPE. Purified	1 mL

Reacts with an epitope unique for CD45R0.

Monoclonal Mouse Anti-Human <b>CD45RA</b> Clone: 4KB5 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>R708601-1</b>	RPE. Purified	1 mL

Reacts with the CD45 isoforms, ABC and AB. The antibody labels most B cells in peripheral blood and tissue sections.

Monoclonal Mouse Anti-Human <b>CD56</b> Clone: C5.9 • Isotype: IgG2b, kappa			
<b>ASR</b>	<b>R725101-1</b>	RPE. Purified	1 mL

The antibody labels natural killer cells and a subset of CD4+ and CD8+ cells in peripheral blood.

Monoclonal Mouse Anti-Human <b>CD57</b> Clone: TB01 • Isotype: IgM, kappa			
<b>ASR</b>	<b>F727001-1</b>	FITC. Purified	1 mL

CD57 is expressed by subsets of NK cells and CD8-positive lymphocytes, and by a small percentage of CD4-positive/CD45R0-positive T lymphocytes in lymph node germinal centres. Neuroectodermal cells and striated muscle also express CD57 (1, 2).

References:

1. Leong AS-Y, Cooper K, Leong FJW-M. CD 57. Manual of diagnostic antibodies for immunohistology. London: Oxford University Press; 1999. p. 103-6.
2. Funaro A, Malavasi F. NK5. CD57 Workshop panel report. In: Kishimoto T, Kikutani H, von dem Borne AEG, Goyert SM, Mason DY, Miyasaka M, et al., editors. Leucocyte typing VI. White cell differentiation antigens. Proceedings of the 6th International Workshop and Conference; 1996 Nov 10-14; Kobe, Japan. New York, London: Garland Publishing Inc.; 1997. p. 274-6.

Monoclonal Mouse Anti-Human <b>CD61, Platelet Glycoprotein IIIa</b> Clone: Y2/51 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C728001-1</b>	APC. Purified	1 mL
<b>ASR</b>	<b>F080301-1</b>	FITC. Purified	1 mL

Detects platelets in peripheral blood and bone marrow and reacts also with megakaryocytes and megakaryoblasts.

Monoclonal Mouse Anti-Human <b>CD64, Fc Gamma Receptor I</b> Clone: 10.1 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C727801-1</b>	APC. Purified	1 mL
<b>ASR</b>	<b>R721901-1</b>	RPE. Purified	1 mL

Reacts with an antigen (FcγRI) constitutively expressed on monocytes, macrophages and blood dendritic cells. The antigen expression can be induced on neutrophils and eosinophils by interferon γ and granulocyte colony-stimulating factor (G-CSF).

Monoclonal Mouse Anti-Human <b>CD66abce</b> Clone: Kat4c • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F711201-1</b>	FITC. Purified	1 mL

CD66 refers to a family of heavily glycosylated glycoproteins whose members are designated CD66a to CD66f. CD66 antibodies often react with two or more members of this family, and antibody Kat4c recognizes three myeloid-associated molecules (CD66a, b, c) and also CD66e (CEA).

Monoclonal Mouse Anti-Human <b>CD68</b> Clone: KP1 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F713501-1</b>	FITC. Purified	1 mL

Reacts with an intracellular lysosomal membrane protein expressed by human monocytes, macrophages and myeloid cells.

## Single-Color Reagents, ASR

<b>Monoclonal Mouse Anti-Human CD71, Transferrin Receptor</b> Clone: Ber-T9 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F082901-1</b>	FITC. Purified	1 mL
Reacts with many proliferating cells in both normal and neoplastic tissue.			

<b>Monoclonal Mouse Anti-Human CD79a<math>\alpha</math></b> Clone: HM57 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C725201-1</b>	APC. Purified	1 mL
<b>ASR</b>	<b>R715901-1</b>	RPE. Purified	1 mL

Synthetic human CD79a peptide has been used as immunogen. Anti-CD79a $\alpha$ , HM57, labels normal and neoplastic B cells. It reacts with an intracytoplasmic epitope. The antibody labels B cells in many mammalian species (1).  
 Reference:  
 1. Jones M, Cordell JL, Beyers AD, Tse AG, Mason DY. Detection of T and B cells in many animal species using cross-reactive antipeptide antibodies. *J Immunol* 1993;150:5429-35.

<b>Monoclonal Mouse Anti-Human CD79<math>\beta</math></b> Clone: SN8 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F713701-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R727201-1</b>	RPE. Purified	1 mL

Reacts with an epitope on the extracellular portion of the  $\beta$ -chain of the CD79 antigen. The antibody is specific for B cells.

<b>Monoclonal Mouse Anti-Human CD103, Mucosa Lymphocyte Antigen (MLA)</b> Clone: Ber-ACT8 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F713801-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R718801-1</b>	RPE. Purified	1 mL

CD103 is the  $\alpha$ E integrin subunit of the heterodimeric  $\alpha$ E $\beta$ 7 integrin belonging to a small  $\beta$ 7 integrin subfamily. CD103 is expressed on more than 95% of intraepithelial CD8+ cells and on 40% of mucosa-associated T cells, whereas less than 2% of resting blood lymphocytes are CD103-positive.  
 Reference:

1. Kruschwitz M, Fritzsche G, Schwarting R, Micklem K, Mason DY, Falini B, et al. Ber-ACT8: monoclonal antibody to the mucosa lymphocyte antigen. *J Clin Pathol* 1991;44:636-45.

<b>Monoclonal Mouse Anti-Human CD117, c-kit</b> Clone: 104D2 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C724401-1</b>	APC. Purified	1 mL
<b>ASR</b>	<b>R714501-1</b>	RPE. Purified	1 mL

CD117, a membrane tyrosine kinase receptor, is encoded by the *KIT* proto-oncogene, also called *c-kit*. CD117 is expressed on 1-4% of normal bone marrow cells. The majority of positive cells (50-70%) co-expresses CD34 and comprises progenitor cells and their precursors of all hematopoietic cell lineages.

<b>Monoclonal Mouse Anti-Human CD138</b> Clone: MI15 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>C725601-1</b>	APC. Purified	1 mL
<b>ASR</b>	<b>R722901-1</b>	RPE. Purified	1 mL

CD138, syndecan-1, is a transmembrane proteoglycan with a main cellular expression in stratified and simple epithelia. Within the hemopoietic system, CD138 is mainly confined to late stages of B-cell differentiation (1).

References:

1. Jourdan M, Ferlin M, Legouffe E, Horvathova M, Liautard J, Rossi JF, et al. The myeloma cell antigen syndecan-1 is lost by apoptotic myeloma cells. *Br J Haematol* 1988;100:637-46.

<b>Monoclonal Mouse Anti-Human CD235a, Glycophorin A</b> Clone: JC159 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F087001-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R707801-1</b>	RPE. Purified	1 mL

Reacts with normal erythroid cells at essentially all stages of differentiation from erythroblasts to mature erythrocytes.

<b>c-kit</b>			
See: CD117, c-kit			

<b>Monoclonal Mouse Anti-Human Epithelial Antigen</b> Clone: Ber-EP4 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F086001-1</b>	FITC. Purified	1 mL
This antibody shows a very broad reactivity with the majority of human epithelial tissues. It does rarely label mesothelial cells. The antibody labels an epitope present on the cell surface and in the cytoplasm.			

<b>Fc Gamma Receptor I and III</b>			
See: CD64 and CD16, respectively			

<b>FMC7</b>			
See: B Cell			

<b>Glycophorin A</b>			
See: CD235a, Glycophorin A			

## Single-Color Reagents, ASR

<b>Monoclonal Mouse Anti-Human HLA-ABC Antigen</b> Clone: W6/32 • Isotype: IgG2a, kappa			
<b>ASR</b>	<b>R700001-1</b>	RPE. Purified	1 mL

Is directed against a monomorphic epitope on the 45 kDa polypeptide products of the *HLA-A, B and C* loci. These antigens belong to class I of the mammalian major histocompatibility complex (MHC), in humans known as human leucocyte-associated antigens (HLA). The antibody labels all nucleated cells in peripheral blood or tonsil cell preparations, including polymorphs, monocytes, lymphocytes and eosinophils. Erythrocytes are not labeled. The reagent is not intended for use in tissue typing.

<b>Monoclonal Mouse Anti-Human HLA-DP, DQ, DR Antigen</b> Clone: CR3/43 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F081701-1</b>	FITC. Purified	1 mL

Labels principally B cells, most monocytes and activated T cells, but is unreactive with normal T cells and polymorphs. The reagent is not intended for use in tissue typing.

<b>Monoclonal Mouse Anti-Human HLA-DR Antigen</b> Clone: AB3 • Isotype: IgG2a, kappa			
<b>ASR</b>	<b>F726601-1</b>	FITC. Purified	1 mL
<b>ASR</b>	<b>R726701-1</b>	RPE. Purified	1 mL

HLA-DR antigen is constitutively expressed on antigen-presenting cells, such as B lymphocytes, monocytes and dendritic cells, but it can also be detected on activated T lymphocytes and activated granulocytes. The reagent is not intended for use in tissue typing.

<b>ICAM-1</b>			
See: CD54, ICAM-1			

<b>Polyclonal Rabbit Anti-Human IgA, Specific for Alpha-Chains</b>			
<b>ASR</b>	<b>F018801-1</b>	FITC. Affinity-isolated F(ab) <sub>2</sub>	1 mL

The antigen used for immunization is serum IgA. F018801-1 labels surface IgA on normal and neoplastic B cells.

<b>Polyclonal Rabbit Anti-Human IgD, Specific for Delta-Chains</b>			
<b>ASR</b>	<b>F018901-1</b>	FITC. Affinity-isolated F(ab) <sub>2</sub>	1 mL
<b>ASR</b>	<b>R511201-1</b>	RPE. Affinity-isolated F(ab) <sub>2</sub>	1 mL

The antigen used for immunization is serum IgD. F018901-1 and R511201-1 label surface IgD on B cells.

<b>Polyclonal Rabbit Anti-Human IgG, Specific for Gamma-Chains</b>			
<b>ASR</b>	<b>F018501-1</b>	FITC. Affinity-isolated F(ab) <sub>2</sub>	1 mL

The antigen used for immunization is serum IgG. F018501-1 labels surface IgG on B cells.

<b>Polyclonal Rabbit Anti-Human IgM, Specific for Mu-Chains</b>			
<b>ASR</b>	<b>F005801-1</b>	FITC. Affinity-isolated F(ab) <sub>2</sub>	1 mL
<b>ASR</b>	<b>R511101-1</b>	RPE. Affinity-isolated F(ab) <sub>2</sub>	1 mL

The antigen used for immunization is serum IgM. F005801-1 and R511101-1 label surface IgM on normal and neoplastic B cells.

<b>Interleukin-2 Receptor</b>			
See: CD25, Interleukin-2 Receptor			

<b>Polyclonal Rabbit Anti-Human Kappa Light Chains</b>			
<b>ASR</b>	<b>C022201-1</b>	APC. Affinity-isolated F(ab) <sub>2</sub>	1 mL
<b>ASR</b>	<b>F043401-1</b>	FITC. Affinity-isolated F(ab) <sub>2</sub>	1 mL
<b>ASR</b>	<b>R043601-1</b>	RPE. Affinity-isolated F(ab) <sub>2</sub>	1 mL

These reagents have been produced in a manner that ensures a particularly wide specificity for kappa-chains. Most B cells, with the exception of pre-B progenitors, pre-B cells and mature plasma cells, express immunoglobulin on their surface. Each cell expresses only one light chain type. In normal peripheral blood and lymph nodes there is a mixture of kappa+ and lambda+ cells with two-thirds of the cells expressing kappa and one-third expressing lambda (1).  
Reference:

1. Johnson A, Olofsson T. Flow cytometric clonal excess analysis of peripheral blood, routine handling, and pitfalls in interpretation. *Cytometry* 1993;14:188-95.

<b>Ki-1 Antigen</b>			
See: CD30			

<b>Monoclonal Mouse Anti-Human Ki-67 Antigen</b> Clone: MIB-1 • Isotype: IgG1, kappa			
<b>ASR</b>	<b>F726801-1</b>	FITC. Purified	1 mL

Reacts with Ki-67 antigen, a nuclear antigen expressed by all human proliferating cells. The antibody recognizes proliferating cells at all stages of the cell cycle (late G<sub>1</sub>, S, M and G<sub>2</sub> phases), but not cells in G<sub>0</sub> phase.  
References:

1. Scholzen T, Gerdes J. The Ki-67 protein: from the known and the unknown. *J Cell Physiol* 2000;182:311-22.

## Single-Color Reagents, ASR

Polyclonal Rabbit Anti-Human Lambda Light Chains			
ASR	F043501-1	FITC. Affinity-isolated F(ab) <sub>2</sub>	1 mL
ASR	PR71250-1	PerCP-Cy5.5 Purified	0.5 mL
ASR	R043701-1	RPE. Affinity-isolated F(ab) <sub>2</sub>	1 mL

The antigen used for immunization is a pool of human lambda Bence Jones proteins. These reagents label lambda light chains of surface immunoglobulin on B cells.

### Leucocyte Common Antigen

See: CD45

Polyclonal Rabbit Anti-Human Lysozyme EC 3.2.1.17			
ASR	F037201-1	FITC. Ig fraction	1 mL

Reacts with the primary and secondary granules of myeloid cells.

### Mucosa-Lymphocyte Antigen (MLA)

See: CD103, Mucosa-Lymphocyte Antigen (MLA)

Monoclonal Mouse Anti-Human Plasma Cell Clone: VS38c • Isotype: IgG1, kappa			
ASR	F714901-1	FITC. Purified	1 mL
ASR	PR71350-1	PerCP-Cy5.5 Purified	0.5 mL

Recognizes an intracellular protein of 63 kDa identical with the rough endoplasmic reticulum-associated protein p63. The antibody labels plasma cells strongly, but frequently also labels melanocytic cells and a number of epithelial cells, e.g. in mucous glands and tonsils, and secretory epithelia in breast, thyroid and pancreas.

Monoclonal Mouse Anti-Human Myeloperoxidase Clone: MPO-7 • Isotype: IgG1, kappa			
ASR	C724601-1	APC. Purified	1 mL
ASR	F071401-1	FITC. Purified	1 mL
ASR	PR70450-1	PerCP-Cy5.5. Purified	0.5 mL
ASR	R720901-1	RPE. Purified	1 mL

Reacts with granula in the cytoplasm of neutrophil granulocytes and with monocytes.

### Platelet Glycoprotein Ib, IIb and IIIb

See: CD42b, CD41 and CD61, respectively

### Protein 150,95

See: CD11c, Protein 150,95

Monoclonal Mouse Anti-Human Terminal Deoxynucleotidyl Transferase Clone: HT-6 • Isotype: IgG1, kappa			
ASR	F713950-1	FITC. Purified	0.5 mL

Reacts with the nuclei of normal T and B-lymphocyte precursors.

## Isotype Reagents, ASR

### Single-Color Mouse Isotype Reagents

Mouse IgG1			
ASR	X096801-1	APC. Purified	1 mL

Isotype reagents for single-color monoclonal mouse antibodies of isotype IgG1.

Mouse IgG2a			
ASR	X093301-1	FITC. Purified	1 mL
ASR	X095001-1	RPE. Purified	1 mL

Isotype reagents for single-color monoclonal mouse antibodies of isotype IgG2a.

### Single-Color Rabbit Ig Reagents

Rabbit F(ab) <sub>2</sub>			
ASR	X099801-1	APC. Solid-phase absorbed F(ab) <sub>2</sub>	1 mL
ASR	X092901-1	FITC. Solid-phase absorbed F(ab) <sub>2</sub>	1 mL
ASR	X093001-1	RPE. Solid-phase absorbed F(ab) <sub>2</sub>	1 mL

Rabbit Ig reagents for solid-phase absorbed APC, FITC and RPE-conjugated rabbit antibodies provided as F(ab)<sub>2</sub> fragments.

# Reagents for In Vitro Diagnostics | IVD\*

Antibody reagents labeled as IVD aid professional users in the diagnosis and monitoring of blood neoplasm and are typically applied in combinatorial antibody panels using flow cytometry to immunophenotype populations of lymphocytes in blood samples.

## Single-Color Conjugates

A selected number of single-color antibody reagents are available as IVD to complement our offering to the clinical laboratory and are conjugated to FITC, RPE, or RPE-Cy5.

## Dual-Color Conjugates

Our dual-color reagents have been carefully selected and are available in a combination of FITC and RPE conjugates. These reagents also include polyclonal kappa light chain conjugates and lambda light chain conjugates, known for their high quality and specificity.

## Secondary Antibody Conjugates

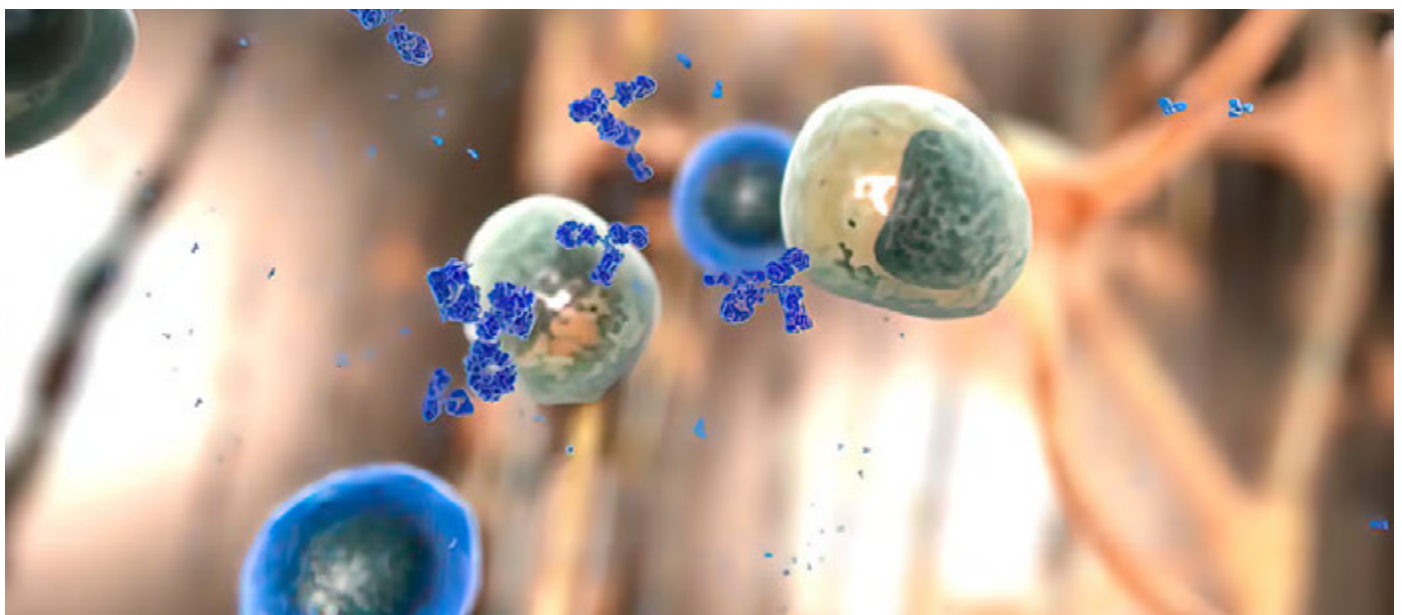
These reagents have been tailored to provide optimal specific fluorescence and a very low non-specific background in indirect immunofluorescence techniques.

## Isotype and Control Reagents

Our mouse isotype reagents are based on monoclonal mouse antibodies of different isotypes, and unless indicated otherwise, directed towards *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. The reagents are provided as conjugated, purified antibodies. Our rabbit antibody controls have been prepared from the serum of nonimmunized rabbits. The reagents have been processed in the same way as our conjugated, solid-phase absorbed F(ab')<sub>2</sub> fragment rabbit antibodies.

## Kits and Accessories

We offer kits for the lysing, fixation and permeabilization of cells.



\* For In Vitro Diagnostic Use

# Overview Tables | IVD

## Overview, Single-Color Reagents, IVD

Antibody Description		Available Form/Code						
Anti-Human	Clone	APC	FITC	PB	PerCP	PerCP-Cy5.5	RPE	RPE-Cy5
CD3	UCHT1		F081801-5				R081001-5	C706701-5
CD4	MT310		F076601-5				R080501-5	
CD8	DK25						R080601-5	
CD19	HD37						R080801-5	C706601-5

## Overview, Control Reagents, IVD

	Available Form/Code			
	APC	FITC	RPE	RPE-Cy5
Mouse IgG1		X092701-5	X092801-5	X095501-5

## Overview, Dual-Color Reagents, IVD

Anti-Human	Clones	Code
CD3/FITC CD19/RPE	UCHT1 HD37	FR86650-5
CD4/FITC CD8/RPE	MT310 DK25	FR86850-5
CD45/FITC CD14/RPE	T29/33 TÜK4	FR70050-5

## Overview, Secondary Antibody Conjugates, IVD

Antibody Description		Available Form/Code	
Anti-Mouse	Clone	FITC	RPE
Immunoglobulins	Polyclonal Goat	F047902-2	R048001-2
Immunoglobulins	Polyclonal Rabbit	F031302-2	R043901-2

# Description Tables | IVD

## Single-Color Reagents, IVD

Monoclonal Mouse Anti-Human <b>CD3</b> Clone: UCHT1 • Isotype: IgG1, kappa			
IVD	<a href="#">F081801-5</a>	FITC. Purified	100 tests, 1 mL
IVD	<a href="#">R081001-5</a>	RPE. Purified	100 tests, 1 mL
IVD	<a href="#">C706701-5</a>	RPE-Cy5. Purified	100 tests, 1 mL

Anti-CD3, UCHT1, reacts with the  $\epsilon$ -chain of the CD3 part of the TCR/CD3 complex. CD3 is a pan-T marker.

Monoclonal Mouse Anti-Human <b>CD4</b> Clone: MT310 • Isotype: IgG1, kappa			
IVD	<a href="#">F076601-5</a>	FITC. Purified	100 tests, 1 mL
IVD	<a href="#">R080501-5</a>	RPE. Purified	100 tests, 1 mL

CD4 is a 55 kDa transmembrane glycoprotein expressed by helper/inducer T cells, 55-65% of mature peripheral blood T cells and by thymocyte subsets. CD4 is also expressed by monocytes/macrophages, Langerhans' cells and other dendritic cells. CD4 is not expressed by B cells.

Monoclonal Mouse Anti-Human <b>CD8</b> Clone: DK25 • Isotype: IgG1, kappa			
IVD	<a href="#">R080601-5</a>	RPE. Purified	100 tests, 1 mL

CD8 is a 68 kDa transmembrane glycoprotein expressed by class I major histocompatibility complex restricted, mature suppressor/cytotoxic T cells, the great majority of cortical thymocytes and approximately 30% of medullary thymocytes. In addition a proportion of  $\gamma\delta$  T cells and NK cells express CD8.

Monoclonal Mouse Anti-Human <b>CD19</b> Clone: HD37 • Isotype: IgG1, kappa			
IVD	<a href="#">R080801-5</a>	RPE. Purified	100 tests, 1 mL
IVD	<a href="#">C706601-5</a>	RPE-Cy5. Purified	100 tests, 1 mL

CD19 is the broadest lineage-specific surface marker for B cells. CD19 is present on the surface of virtually all B lymphocytes, including early B progenitor cells, but it is lost upon terminal differentiation to plasma cells (1). CD19 is also expressed on follicular dendritic cells.

References:

1. Sato S, Tedder TF. BC3. CD19 workshop panel report. In: Kishimoto T, Kikutani H, von dem Borne AEG, Goyert SM, Mason DY, Miyasaka M, et al., editors. Leucocyte typing VI. White cell differentiation antigens. Proceedings of the 6th International Workshop and Conference; 1996 Nov 10-14; Kobe, Japan. New York, London: Garland Publishing Inc.; 1997. p. 133-5.

## Dual-Color Reagents, IVD

Monoclonal Mouse Anti-Human <b>CD3/FITC + CD19/RPE</b> Clone: UCHT1 and HD37 • Isotype: IgG1, kappa and IgG1, kappa			
IVD	<a href="#">FR86650-5</a>	FITC and RPE. Purified	50 tests, 0.5 mL

FR86650-5 allows simultaneous detection and enumeration of T cells and B cells.

Monoclonal Mouse Anti-Human <b>CD4/FITC + CD8/RPE</b> Clone: MT310 and DK25 • Isotype: IgG1, kappa and IgG1, kappa			
IVD	<a href="#">FR86850-5</a>	FITC and RPE. Purified	50 tests, 0.5 mL

FR86850-5 allows simultaneous detection and enumeration of helper/inducer T cell and suppressor/cytotoxic T-cell subsets.

Monoclonal Mouse Anti-Human <b>CD45/FITC + CD14/RPE</b> Clone: T29/33 and TÜK4 • Isotype: IgG1, kappa and IgG2a, kappa			
IVD	<a href="#">FR70050-5</a>	FITC and RPE. Purified	50 tests, 0.5 mL

FR70050-5 allows simultaneous subdivision of leucocytes into lymphocytes, monocytes and granulocytes.



## Isotype and Control Reagents, IVD

### Single-Color Mouse Isotype Reagents

Mouse IgG1			
IVD	X092701-5	FITC. Purified	1 mL
IVD	X092801-5	RPE. Purified	1 mL
IVD	X095501-5	RPE-Cy5. Purified	1 mL

Isotype reagents for single-color monoclonal mouse antibodies of isotype IgG1.

### Secondary Antibody Conjugates, IVD

Polyclonal Goat Anti-Mouse Immunoglobulins			
IVD	F047902-2	FITC. Affinity-isolated F(ab) <sub>2</sub>	2 mL
IVD	R048001-2	RPE. Affinity-isolated F(ab) <sub>2</sub>	1 mL

Cross-reaction with human immunoglobulins and fetal calf serum has been removed by solid-phase absorption.

### Ancillary Reagents, IVD

Phosphate-Buffered Saline (PBS), pH 7.0		
IVD	S302430-2	6 x 1 L

The buffer is supplied as 6 packages. Each makes 1 L of 0.02 mol/L sodium phosphate buffer, 0.15 mol/L NaCl, pH 7.0.

### Unconjugated Control Reagents

Mouse IgG1			
IVD	X093101-2	Culture supernatant	1 mL

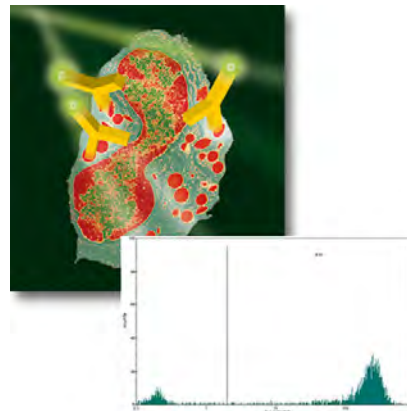
X093101-2 is a cell culture supernatant containing monoclonal mouse IgG1 antibody to *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. X093101-2 is well-suited as a negative control in all techniques utilizing monoclonal mouse antibodies of isotype IgG1.

Polyclonal Rabbit Anti-Mouse Immunoglobulins			
IVD	F031302-2	FITC. F(ab) <sub>2</sub>	2 mL
IVD	R043901-2	RPE. Affinity-isolated F(ab) <sub>2</sub>	1 mL

Cross-reaction with human immunoglobulins and fetal calf serum has been removed by solid-phase absorption.

IntraStain		
IVD	K231111-5	100 tests

Fixation and permeabilization kit for flow cytometry. IntraStain is intended for two-step fixation and permeabilization of single-cell suspensions. This procedure allows immunological detection of intracellular antigens while the cellular structure, morphologic light scatter, and cell surface immunoreactivity remain intact. Cells treated with IntraStain can, therefore, be identified in flow cytometry by their light scatter properties and surface marker expression, while simultaneously being analysed for intracellular antigens.



Intracellular staining of cells from a case of acute myeloid leukemia using IntraStain, Code K231111-5, and Anti-Myeloperoxidase/FITC, Code F071401-1.



# Reagents for Research Use Only | RUO\*

Antibody reagents labeled as RUO enable tests for purposes other than providing diagnostic information to patients and practitioners, e.g., forensic, academic, research, and other nonclinical laboratories. These reagents are typically used in combinatorial panels with other fluorescently-labeled antibodies for immunophenotyping by flow cytometry.

## Complementary Portfolio

Together with other reagents in our portfolio, RUO labeled antibody reagents support laboratories in assays for purposes other than providing a diagnostic output. In these areas, the full portfolio is enabling research the fields of immunology, hematology, cell and gene therapy, and other cell-based assays relying on immunophenotyping.

## Ancillary Reagents

It includes kits and reagents used in flow cytometry such research solutions for quantitative determination of cell-surface antigens (QIFIKIT®) and measurement of telomeric sequences in vertebrate interphase hematopoietic cells (Telomere PNA Kit/FITC).

# Overview Tables | RUO

## Overview, Single-Color Reagents, RUO

Antibody Description		Available Form/Code						
Anti-Human	Clone	APC	FITC	PB	PerCP	PerCP-Cy5.5	RPE	RPE-Cy5
CD27	M-T271		F717801-8					
CD28	CD28.1						R716401-8	
CD54	6.5B5		F714301-8					

\* For Research Use Only. Not for use in diagnostic procedures.

# Description Tables | RUO

## Single-Color Reagents, RUO

Monoclonal Mouse Anti-Human <b>CD27</b> Clone: M-T271 • Isotype: IgG1, kappa			
<b>RUO</b>	<b>F717801-8</b>	FITC. Purified	100 tests, 1 mL

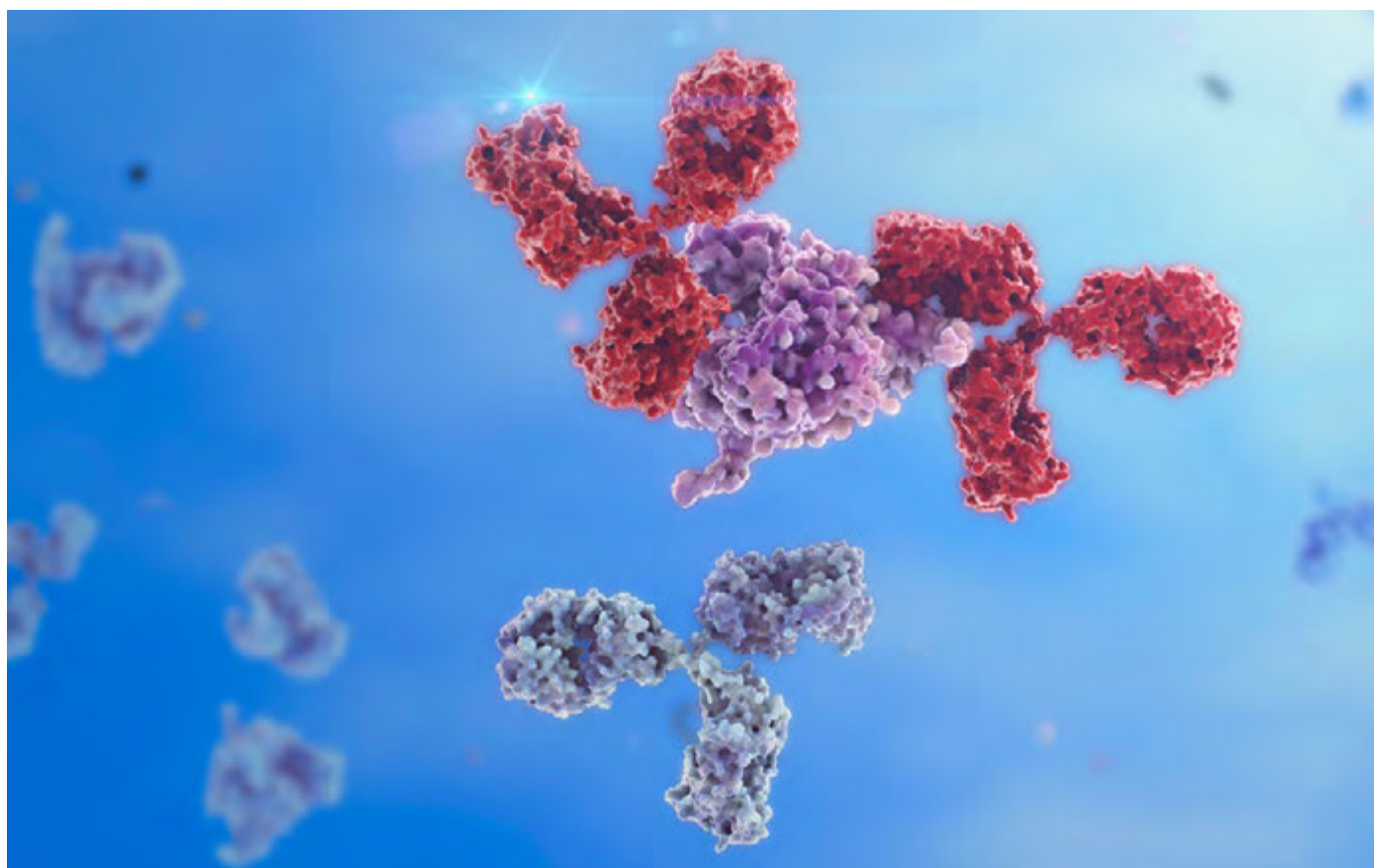
CD27 is a transmembrane antigen expressed on the majority of human peripheral blood T cells, on a subpopulation of B cells, and on a portion of natural killer (NK) cells. CD27 acts in a co-stimulatory fashion with the ligand, CD70. During activation, the expression of CD27 is increased on B cells and unprimed T cells.

Monoclonal Mouse Anti-Human <b>CD28</b> Clone: CD28.1 • Isotype: IgG1, kappa			
<b>RUO</b>	<b>R716401-8</b>	RPE. Purified	100 tests, 1 mL

CD28 is a T-cell surface molecule expressed on approximately 95% of CD4+ and 50% of CD8+ peripheral T cells. CD28 mediates adhesion to activated B cells through the ligands CD80 and CD86, and is believed to play an important role in the interaction between T and B cells.

Monoclonal Mouse Anti-Human <b>CD54, ICAM-1</b> Clone: 6.5B5 • Isotype: IgG1, kappa			
<b>RUO</b>	<b>F714301-8</b>	FITC. Purified	100 tests, 1 mL

Reacts with the cell surface glycoprotein ICAM-1. ICAM-1 (intercellular adhesion molecule-1) is expressed mainly on monocytes and endothelial cells, but expression can be induced or upregulated on many cell types including B and T lymphocytes.



## Ancillary Reagents, RUO

### Quantitative Analysis

QIFIKIT®*		
RUO	K007811-8	10 calibrations

QIFIKIT® is intended for the quantitative determination of cell surface antigens by flow cytometry using indirect immunofluorescence assay (1, 2). QIFIKIT® consists of a series of 6-bead populations, approximately 10 µm in diameter and coated with different, but well-defined quantities of a mouse monoclonal antibody (Mab). The number of Mab molecules on the 6-bead populations ranges from 0 to 400 000-800 000. The precise values are provided with the kit. The beads mimic cells labeled with a specific primary mouse monoclonal antibody. Briefly, the procedure for quantitation is as follows: Specimen cells are labeled with primary mouse Mab at saturating concentration. Under this condition the primary Mab binds to the cell surface antigen monovalently. Therefore, the number of bound antibody molecules corresponds to the number of antigenic sites. Then, the cells are incubated, in parallel with the QIFIKIT® beads, with Polyclonal Goat Anti-Mouse Immunoglobulins/FITC, Goat F(ab)<sub>2</sub>, at saturating concentration. A calibration curve is constructed by plotting the fluorescence intensity of the individual bead populations against the number of Mab molecules on the beads. The number of antigenic sites on the specimen cells are then determined by interpolation. The kit is presented as two complementary bead cocktails: A 'Set-Up Cocktail' and a 'Calibration Cocktail', each containing 1 mL, enough for 10 calibrations. Also included in the kit is 200 µL Polyclonal Goat Anti-Mouse Immunoglobulins/ FITC, Goat F(ab)<sub>2</sub>. The kit is economical in use, as different cell specimens may be labeled with different primary antibodies and then quantitated using the same set of calibration beads. The only requirement is that specimens and beads are incubated with the conjugate simultaneously.

\* Registered trademark of BIOCYTEX

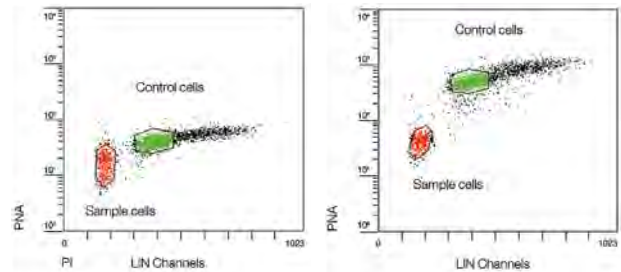
#### References:

1. Poncelet P, Carayon P. Cytofluorometric quantification of cell-surface antigens by indirect immunofluorescence using monoclonal antibodies. *J Immunol Methods* 1985;85:65-74.
2. Poncelet P, Lavabre-Bertrand T, Carayon P. Quantitative phenotypes of B chronic lymphocytic leukemia B cells established with monoclonal antibodies from the B cell protocol. In: Reinherz EL et al., eds. *Leukocyte Typing II*. New York-Berlin-Heidelberg-Tokyo: Springer-Verlag, 1986;2:329-43.

### Telomere PNA Kit

Telomere PNA Kit/FITC, for Flow Cytometry		
RUO	K532711-8	20 duplicate tests

Telomere PNA Kit/FITC for Flow Cytometry provides a convenient method for measuring telomeric sequences in vertebrate interphase hematopoietic cells. The kit contains reagents for 20 duplicate tests (40 single tests). In addition to the fluorescein-conjugated peptide nucleic acid (PNA) probe in hybridization solution, the kit contains hybridization solution without probe for correction of cell autofluorescence, wash solution for post-hybridization washes and DNASTaining solution for identification of G<sub>0/1</sub> cells. The kit has been designed so that post-hybridization washes are kept to a minimum and formamide washes are avoided. In a mixture of sample cells (provided by the user) and control cells (provided by the user), the sample DNA is denatured at 82 °C for 10 minutes in an Eppendorf tube in the presence of hybridization solution with or without fluorescein-conjugated PNA telomere probe. Then, hybridization takes place in the dark at room temperature overnight. The hybridization is followed by 2 washes in wash solution at 40 °C for 10 minutes each. Finally the cells are resuspended in DNA-staining solution and stored in the dark at 2-8 °C for 2-3 hours before analysis by flow cytometry. The specific fluorescence from telomere staining will be observed in FL1, and fluorescence from DNA staining will be observed in FL3. Compared with the traditional telomere restriction fragment (TRF) method, a major advantage of the Telomere PNA Kit/FITC assay is that it does not suffer from the interaction of subtelomere sequences.



Cells mixed with hybridization solution without probe.

Cells hybridized with hybridization solution containing Telomere PNA Probe/FITC.

# Novocyte Flow Cytometers

The Agilent line of NovoCyte flow cytometers provides an expanded set of capabilities that accommodate today's high-end and increasingly sophisticated multi-color flow cytometry assays.

Laboratories now have the flexibility to choose 1-5 lasers, and up to 30 fluorescence channels. When throughput is essential, the auto-sampling capabilities can be integrated into different laboratory automation platforms, efficiently process both FACS tubes (using a 40-tube rack) and 24-, 48-, 96-, and 384-well plates, and allow for walk-away sample acquisition. The intuitive and powerful NovoExpress software has been further advanced, providing an exceptional user experience in data acquisition, analysis and reporting.

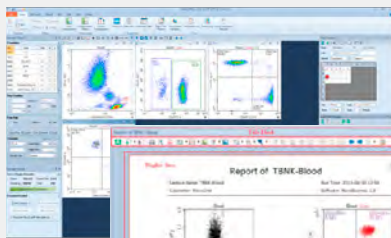
- Expanded flexibility with 1-5 lasers and up to 30 fluorescence channel options, customizable, and upgradeable
- Sample recovery mode serves to collect unused sample at end of acquisition
- Excellent sensitivity and resolution
- Intuitive and powerful software for data acquisition, analysis, and reporting
- Smart-design functionalities and walk-away operation simplify your workflow

- Automation-ready capability for high-throughput needs
- Wide, 7.2-log dynamic range eliminates the need for routine detector adjustments
- High-speed collection up to 100,000 events/second
- Accurate absolute cell count in every experiment, which eliminates the need for reference beads

## Stable and consistent results on a daily basis

Equipped with high-quality lasers, optical filters and detectors to ensure consistent signal detection, and combined with fluidic feedback control mechanisms to maintain steady flow rates, you can rely on the NovoCyte line of flow cytometers. They have demonstrated superior stability across a wide range of sample flow rates, a critical requirement for flow cytometry to provide consistent results under variable operating conditions. Agilent flow cytometers give you peace of mind so you can focus more on your experiments.

## Streamline your experiment's design, setup and data analysis with the NovoExpress software



Workspace + Report: NovoExpress user-friendly interface for easy access to settings, analysis, reports, and plates/sample layout.



Toolbar: Instrument toolbar showing quick access to QC and fluidic maintenance functions.



Heat map: Heat map data display.



NovoCyt



NovoCyt Advanteon



NovoCyt Quanteon



NovoCyt Penteon

## NovoCyt Instrument Configurations

For more information on NovoCyt instruments, please visit [www.agilent.com/chem/novocyt](http://www.agilent.com/chem/novocyt)

Product	Lasers	349 nm	405 nm	488 nm	561 nm	637 nm	Max. No. of Fluorescence Channels
NovoCyt**	1			●			6
					●		6
	2		●	●			11
				●	●		11
						●	9
	3		●	●	●		15
			●	●	●	15	
		●				●	13
NovoCyt Advanteon**	1			●			7
					●		6
	2		●	●			15
				●	●		13
						●	11
	3		●	●	●		21
			●	●	●	17	
		●				●	19
NovoCyt Quanteon**	4		●	●	●	25	
NovoCyt Penteon*	5	●	●	●	●	●	30

\* For Research Use Only. Not for use in diagnostic procedures.

\*\* Selected configurations are registered as CE-IVD





# Product Code Index – Reagents & Kits

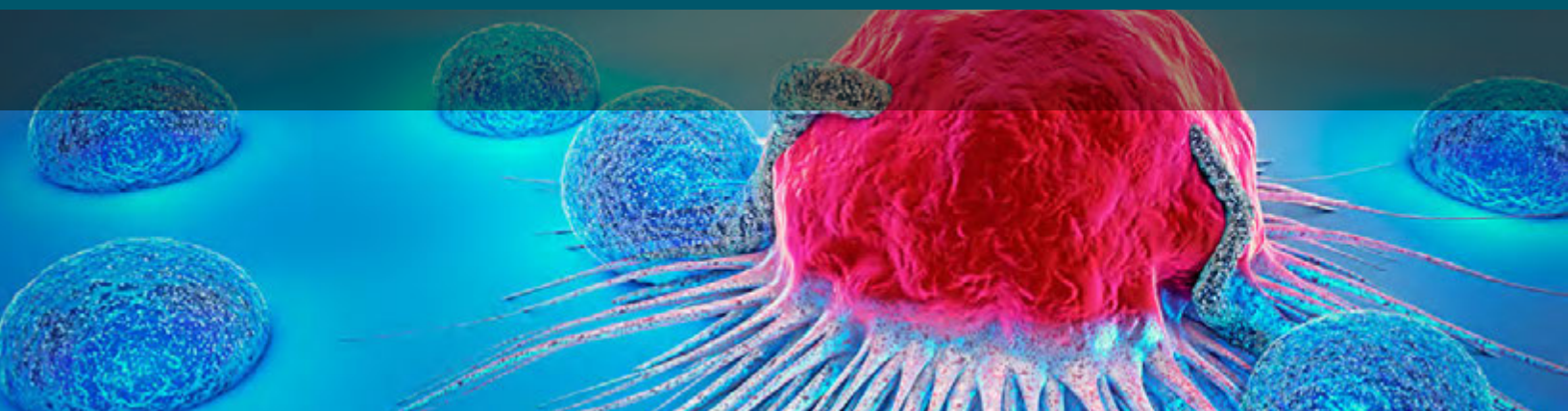
Code	Product	Package size	See chapter
<b>C</b>			
C022201-1	Polyclonal Rabbit Anti-Human Kappa Light Chains/APC, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
C706601-5	Monoclonal Mouse Anti-Human CD19/RPE-Cy5, Clone HD37	100 tests, 1 mL	IVD
C706701-5	Monoclonal Mouse Anti-Human CD3/RPE-Cy5, Clone UCHT1	100 tests, 1 mL	IVD
C709901-1	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/RPE-Cy5, Clone T29/33	1 mL	ASR
C722401-1	Monoclonal Mouse Anti-Human CD19/APC, Clone HD37	1 mL	ASR
C722601-1	Monoclonal Mouse Anti-Human CD4/APC, Clone MT310	1 mL	ASR
C722701-1	Monoclonal Mouse Anti-Human CD8/APC, Clone DK25	1 mL	ASR
C723001-1	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/APC, Clone T29/33	1 mL	ASR
C723850-1	Monoclonal Mouse Anti-Human CD34 Class III/APC, Clone BIRMA-K3	0.5 mL	ASR
C724201-1	Monoclonal Mouse Anti-Human CD5/APC, Clone DK23	1 mL	ASR
C724401-1	Monoclonal Mouse Anti-Human CD117, c-kit/APC, Clone 104D2	1 mL	ASR
C724601-1	Monoclonal Mouse Anti-Human Myeloperoxidase/APC, Clone MPO-7	1 mL	ASR
C725201-1	Monoclonal Mouse Anti-Human CD79acy/APC, Clone HM57	1 mL	ASR
C725601-1	Monoclonal Mouse Anti-Human CD138/APC, Clone M115	1 mL	ASR
C727801-1	Monoclonal Mouse Anti-Human CD64, Fc Gamma Receptor I/APC, Clone 10.1	1 mL	ASR
C728001-1	Monoclonal Mouse Anti-Human CD61, Platelet Glycoprotein IIIa/APC, Clone Y2/51	1 mL	ASR
C728101-1	Monoclonal Mouse Anti-Human CD22/APC, Clone 4KB128	1 mL	ASR
<b>F</b>			
F005801-1	Polyclonal Rabbit Anti-Human IgM/FITC, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
F018501-1	Polyclonal Rabbit Anti-Human IgG/FITC, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
F018801-1	Polyclonal Rabbit Anti-Human IgA/FITC, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
F018901-1	Polyclonal Rabbit Anti-Human IgD/FITC, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
F031302-2	Polyclonal Rabbit Anti-Mouse Immunoglobulins/FITC, Rabbit F(ab) <sub>2</sub>	2 mL	IVD
F037201-1	Polyclonal Rabbit Anti-Human Lysozyme EC 3.2.1.17/FITC	1 mL	ASR
F043401-1	Polyclonal Rabbit Anti-Human Kappa Light Chains/FITC, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
F043501-1	Polyclonal Rabbit Anti-Human Lambda Light Chains/FITC, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
F047902-2	Polyclonal Goat Anti-Mouse Immunoglobulins/FITC, Goat F(ab) <sub>2</sub>	2 mL	IVD
F071301-1	Monoclonal Mouse Anti-Human CD11c, Protein 150,95/FITC, Clone KB90	1 mL	ASR
F071401-1	Monoclonal Mouse Anti-Human Myeloperoxidase/FITC, Clone MPO-7	1 mL	ASR
F076501-1	Monoclonal Mouse Anti-Human CD8/FITC, Clone DK25	1 mL	ASR
F076601-5	Monoclonal Mouse Anti-Human CD4/FITC, Clone MT310	100 tests, 1 mL	IVD
F076801-1	Monoclonal Mouse Anti-Human CD19/FITC, Clone HD37	1 mL	ASR
F078901-1	Monoclonal Mouse Anti-Human CD7/FITC, Clone DK24	1 mL	ASR
F079501-1	Monoclonal Mouse Anti-Human CD5/FITC, Clone DK23	1 mL	ASR
F079901-1	Monoclonal Mouse Anti-Human CD20/FITC, Clone B-Ly1	1 mL	ASR
F080001-1	Monoclonal Mouse Anti-Human CD45R0/FITC, Clone UCHL1	1 mL	ASR
F080101-1	Monoclonal Mouse Anti-Human CD25, Interleukin-2 Receptor/FITC, Clone ACT-1	1 mL	ASR
F080301-1	Monoclonal Mouse Anti-Human CD61, Platelet Glycoprotein IIIa/FITC, Clone Y2/51	1 mL	ASR
F081701-1	Monoclonal Mouse Anti-Human HLA-DP, DQ, DR Antigen/FITC, Clone CR3/43	1 mL	ASR
F081801-5	Monoclonal Mouse Anti-Human CD3/FITC, Clone UCHT1	100 tests, 1 mL	IVD
F082601-1	Monoclonal Mouse Anti-Human CD10/FITC, Clone SS2/36	1 mL	ASR
F082901-1	Monoclonal Mouse Anti-Human CD71, Transferrin Receptor/FITC, Clone Ber-T9	1 mL	ASR
F083001-1	Monoclonal Mouse Anti-Human CD15/FITC, Clone C3D-1	1 mL	ASR
F083101-1	Monoclonal Mouse Anti-Human CD13/FITC, Clone WM-47	1 mL	ASR
F083201-1	Monoclonal Mouse Anti-Human CD33/FITC, Clone WM-54	1 mL	ASR
F084401-1	Monoclonal Mouse Anti-Human CD14/FITC, Clone TÜK4	1 mL	ASR
F084901-1	Monoclonal Mouse Anti-Human CD30/FITC, Clone Ber-H2	1 mL	ASR
F086001-1	Monoclonal Mouse Anti-Human Epithelial Antigen/FITC, Clone Ber-EP4	1 mL	ASR
F086101-1	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/FITC, Clone T29/33	1 mL	ASR
F087001-1	Monoclonal Mouse Anti-Human CD235a, Glycophorin A/FITC, Clone JC159	1 mL	ASR
F701101-1	Monoclonal Mouse Anti-Human CD16, Fc Gamma Receptor III/FITC, Clone DJ130c	1 mL	ASR
F705301-1	Monoclonal Mouse Anti-Human BCL2 Oncoprotein/FITC, Clone 124	1 mL	ASR
F706001-1	Monoclonal Mouse Anti-Human CD22/FITC, Clone 4KB128	1 mL	ASR

## Product Code Index – Reagents & Kits

Code	Product	Package size	See chapter
F706201-1	Monoclonal Mouse Anti-Human CD23/FITC, Clone MHM6	1 mL	ASR
F708101-1	Monoclonal Mouse Anti-Human CD34 Class III/FITC, Clone BIRMA-K3	1 mL	ASR
F708801-1	Monoclonal Mouse Anti-Human CD41, Platelet Glycoprotein IIb/FITC, Clone 5B12	1 mL	ASR
F710101-1	Monoclonal Mouse Anti-Human CD38/FITC, Clone AT13/5	1 mL	ASR
F710201-1	Monoclonal Mouse Anti-Human CD43/FITC, Clone DF-T1	1 mL	ASR
F711001-1	Monoclonal Mouse Anti-Human B Cell/FITC, Clone FMC7	1 mL	ASR
F711201-1	Monoclonal Mouse Anti-Human CD66abce/FITC, Clone Kat4c	1 mL	ASR
F713401-1	Monoclonal Mouse Anti-Human CD24/FITC, Clone SN3	1 mL	ASR
F713501-1	Monoclonal Mouse Anti-Human CD68/FITC, Clone KP1	1 mL	ASR
F713701-1	Monoclonal Mouse Anti-Human CD79B/FITC, Clone SN8	1 mL	ASR
F713801-1	Monoclonal Mouse Anti-Human CD103, Mucosa Lymphocyte Antigen/FITC, Clone Ber-ACT8	1 mL	ASR
F713950-1	Monoclonal Mouse Anti-Human Terminal Deoxynucleotidyl Transferase/FITC, Clone HT-6	0.5 mL	ASR
F714101-1	Monoclonal Mouse Anti-Human CD1a/FITC, Clone NA1/34	1 mL	ASR
F714301-8	Monoclonal Mouse Anti-Human CD54, ICAM-1/FITC, Clone 6.5B5	100 tests, 1 mL	RUO
F714901-1	Monoclonal Mouse Anti-Human Plasma Cell/FITC, Clone VS38c	1 mL	ASR
F717801-8	Monoclonal Mouse Anti-Human CD27/FITC, Clone M-T271	100 tests, 1 mL	RUO
F726601-1	Monoclonal Mouse Anti-Human HLA-DR Antigen/FITC, Clone AB3	1 mL	ASR
F726801-1	Monoclonal Mouse Anti-Human Ki-67 Antigen/FITC, Clone MIB-1	1 mL	ASR
F727001-1	Monoclonal Mouse Anti-Human CD57/FITC, Clone TB01	1 mL	ASR
F727601-1	Monoclonal Mouse Anti-Human CD7/FITC, Clone CBC.37	1 mL	ASR
FR70050-5	Dual-Colour Reagent, Anti-Human CD45/FITC + Anti-Human CD14/RPE	50 tests, 0.5 mL	IVD
FR86650-5	Dual-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD19/RPE	50 tests, 0.5 mL	IVD
FR86850-5	Dual-Colour Reagent, Anti-Human CD4/FITC + Anti-Human CD8/RPE	50 tests, 0.5 mL	IVD
<b>K</b>			
K007811-8	QIFIKIT®	10 calibrations	RUO
K231111-5	IntraStain	100 tests	IVD
K532711-8	Telomere PNA Kit/FITC for Flow Cytometry	20 tests	RUO
<b>P</b>			
PB98201-1	Monoclonal Mouse Anti-Human CD3/PB, Clone UCHT1	1 mL	ASR
PB98401-1	Monoclonal Mouse Anti-Human CD8/PB, Clone DK25	1 mL	ASR
PB98501-1	Monoclonal Mouse Anti-Human CD19/PB, Clone HD37	1 mL	ASR
PB98601-1	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/PB, Clone T29/33	1 mL	ASR
PR70101-1	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/PerCP, Clone 2D1	1 mL	ASR
PR70201-1	Monoclonal Mouse Anti-Human CD3/PerCP, Clone UCHT1	1 mL	ASR
PR70350-1	Monoclonal Mouse Anti-Human CD19/PerCP-Cy5.5, Clone HD37	0.5 mL	ASR
PR70450-1	Monoclonal Mouse Anti-Human Myeloperoxidase/PerCP-Cy5.5, Clone MPO-7	0.5 mL	ASR
PR70650-1	Monoclonal Mouse Anti-Human CD34 Class III/PerCP-Cy5.5, Clone BIRMA-K3	0.5 mL	ASR
PR70750-1	Monoclonal Mouse Anti-Human CD22/PerCP-Cy5.5, Clone 4KB128	0.5 mL	ASR
PR71050-1	Monoclonal Mouse Anti-Human CD1a/PerCP-Cy5.5, Clone NA1/34	0.5 mL	ASR
PR71150-1	Monoclonal Mouse Anti-Human CD7/PerCP-Cy5.5, Clone CBC.37	0.5 mL	ASR
PR71250-1	Polyclonal Rabbit Anti-Human Lambda Light Chains/PerCP-Cy5.5	0.5 mL	ASR
PR71350-1	Monoclonal Mouse Anti-Human Plasma Cell/PerCP-Cy5.5, Clone VS38c	0.5 mL	ASR
<b>R</b>			
R043601-1	Polyclonal Rabbit Anti-Human Kappa Light Chains/RPE, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
R043701-1	Polyclonal Rabbit Anti-Human Lambda Light Chains/RPE, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
R043901-2	Polyclonal Rabbit Anti-Mouse Immunoglobulins/RPE, Rabbit F(ab) <sub>2</sub>	1 mL	IVD
R048001-2	Polyclonal Goat Anti-Mouse Immunoglobulins/RPE, Goat F(ab) <sub>2</sub>	1 mL	IVD
R071501-1	Monoclonal Mouse Anti-Human CD13/RPE, Clone WM-47	1 mL	ASR
R074501-1	Monoclonal Mouse Anti-Human CD33/RPE, Clone WM-54	1 mL	ASR
R080501-5	Monoclonal Mouse Anti-Human CD4/RPE, Clone MT310	100 tests, 1 mL	IVD
R080601-5	Monoclonal Mouse Anti-Human CD8/RPE, Clone DK25	100 tests, 1 mL	IVD
R080701-1	Monoclonal Mouse Anti-Human CD2/RPE, Clone MT910	1 mL	ASR
R080801-5	Monoclonal Mouse Anti-Human CD19/RPE, Clone HD37	100 tests, 1 mL	IVD
R081001-5	Monoclonal Mouse Anti-Human CD3/RPE, Clone UCHT1	100 tests, 1 mL	IVD
R081101-1	Monoclonal Mouse Anti-Human CD25, Interleukin-2 Receptor/RPE, Clone ACT-1	1 mL	ASR

## Product Code Index – Reagents & Kits

Code	Product	Package size	See chapter
R084101-1	Monoclonal Mouse Anti-Human CD11b, C3bi Receptor/RPE, Clone 2LPM19c	1 mL	ASR
R084201-1	Monoclonal Mouse Anti-Human CD5/RPE, Clone DK23	1 mL	ASR
R084301-1	Monoclonal Mouse Anti-Human CD45R0/RPE, Clone UCHL1	1 mL	ASR
R084801-1	Monoclonal Mouse Anti-Human CD10/RPE, Clone SS2/36	1 mL	ASR
R511101-1	Polyclonal Rabbit Anti-Human IgM/RPE, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
R511201-1	Polyclonal Rabbit Anti-Human IgD/RPE, Rabbit F(ab) <sub>2</sub>	1 mL	ASR
R700001-1	Monoclonal Mouse Anti-Human HLA-ABC Antigen/RPE, Clone W6/32	1 mL	ASR
R701201-1	Monoclonal Mouse Anti-Human CD16, Fc Gamma Receptor III/RPE, Clone DJ130c	1 mL	ASR
R701301-1	Monoclonal Mouse Anti-Human CD20/RPE, Clone B-Ly1	1 mL	ASR
R701401-1	Monoclonal Mouse Anti-Human CD42b, Platelet Glycoprotein Ib/RPE, Clone AN51	1 mL	ASR
R705801-1	Monoclonal Mouse Anti-Human CD41, Platelet Glycoprotein IIb/RPE, Clone 5B12	1 mL	ASR
R706101-1	Monoclonal Mouse Anti-Human CD22/RPE, Clone 4KB128	1 mL	ASR
R707801-1	Monoclonal Mouse Anti-Human CD235a, Glycophorin A/RPE, Clone JC159	1 mL	ASR
R708601-1	Monoclonal Mouse Anti-Human CD45RA/RPE, Clone 4KB5	1 mL	ASR
R708701-1	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/RPE, Clone T29/33	1 mL	ASR
R710801-1	Monoclonal Mouse Anti-Human CD23/RPE, Clone MHM6	1 mL	ASR
R712501-1	Monoclonal Mouse Anti-Human CD34 Class III/RPE, Clone BIRMA-K3	1 mL	ASR
R714401-1	Monoclonal Mouse Anti-Human CD38/RPE, Clone AT13/5	1 mL	ASR
R714501-1	Monoclonal Mouse Anti-Human CD117, c-kit/RPE, Clone 104D2	1 mL	ASR
R715901-1	Monoclonal Mouse Anti-Human CD79acy/RPE, Clone HM57	1 mL	ASR
R716401-8	Monoclonal Mouse Anti-Human CD28/RPE, Clone CD28.1	100 tests, 1 mL	RUO
R718801-1	Monoclonal Mouse Anti-Human CD103, Mucosa Lymphocyte Antigen/RPE, Clone Ber-ACT8	1 mL	ASR
R718901-1	Monoclonal Mouse Anti-Human CD1a/RPE, Clone NA1/34	1 mL	ASR
R720901-1	Monoclonal Mouse Anti-Human Myeloperoxidase/RPE, Clone MPO-7	1 mL	ASR
R721901-1	Monoclonal Mouse Anti-Human CD64, Fc Gamma Receptor I/RPE, Clone 10.1	1 mL	ASR
R722901-1	Monoclonal Mouse Anti-Human CD138/RPE, Clone MI15	1 mL	ASR
R725101-1	Monoclonal Mouse Anti-Human CD56/RPE, Clone C5.9	1 mL	ASR
R726701-1	Monoclonal Mouse Anti-Human HLA-DR Antigen/RPE, Clone AB3	1 mL	ASR
R727201-1	Monoclonal Mouse Anti-Human CD79β/RPE, Clone SN8	1 mL	ASR
R727701-1	Monoclonal Mouse Anti-Human CD7/RPE, Clone CBC.37	1 mL	ASR
<b>S</b>			
S302430-2	Phosphate-Buffered Saline (PBS), pH 7.0	6 x 1 L	IVD
<b>X</b>			
X092701-5	Negative Control, Mouse IgG1/FITC	1 mL	IVD
X092801-5	Negative Control, Mouse IgG1/RPE	1 mL	IVD
X092901-1	Ig Reagent, Rabbit F(ab) <sub>2</sub> /FITC	1 mL	ASR
X093001-1	Ig Reagent, Rabbit F(ab) <sub>2</sub> /RPE	1 mL	ASR
X093101-2	Control Reagent, Mouse IgG1	1 mL	IVD
X093301-1	Isotype Reagent, Mouse IgG2a/FITC	1 mL	ASR
X095001-1	Isotype Reagent, Mouse IgG2a/RPE	1 mL	ASR
X095501-5	Negative Control, Mouse IgG1/RPE-Cy5	1 mL	IVD
X096801-1	Isotype Reagent, Mouse IgG1/APC	1 mL	ASR
X099801-1	Ig Reagent, Rabbit F(ab) <sub>2</sub> /APC	1 mL	ASR



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