Monoclonal Mouse Anti-Human CD19/APC, Clone HD37  Code C7224
Monoclonal Mouse Anti-Human CD19/FITC, Clone HD37  Code F0768
Monoclonal Mouse Anti-Human CD19/PB, Clone HD37  Code PB985
Monoclonal Mouse Anti-Human CD19/PerCP-Cy5.5, Clone HD37  Code PR703

Analyte specific reagent. Analytical and performance characteristics are not established.

Summary and explanation
CD19 is a 120 kDa transmembrane glycoprotein with a reduced Mr of 95 000 (1, 2). CD19 is a member of the immunoglobulin superfamily with two extracellular C2-type domains (1), and it is a critical signal transduction molecule that regulates B lymphocyte development, activation, and differentiation (2). CD19 expression is restricted to B cells, being absent from T cells, monocytes, and granulocytes (1). The CD19 antigen appears early during B cell maturation, probably at late pro-B cell stage around the time of Ig heavy chain rearrangement. It then persists during all stages of B cell maturation and is lost upon terminal differentiation to plasma cells (1).

Reagent provided
C7224 is a purified monoclonal mouse antibody conjugated with allophycocyanin (APC).
F0768 is a purified monoclonal mouse antibody conjugated with fluorescein isothiocyanate isomer 1 (FITC).
PB985 is a purified monoclonal mouse antibody conjugated with Pacific Blue® (PB).
PR703 is a purified monoclonal mouse antibody conjugated with peridinin chlorophyll protein-Cyanine 5.5 (PerCP-Cy5.5)
The conjugates are provided in liquid form in buffer containing 1% bovine serum albumin (BSA) and 15 mmol/L NaNO₃, pH 7.2.

Isotype: IgG1, kappa.
Conjugate concentration: See label on vial.

* The Pacific Blue™ dye antibody conjugate in this product is sold under license from Life Technologies Corporation, and is covered by pending and issued patents.

Immunogen
Hairy cell leukemia cells.

Precautions
1. Analyte specific reagent. Analytical and performance characteristics are not established.
2. For professional users.
3. This product contains sodium azide (NaNO₃), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, sodium azide may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
4. Minimize microbial contamination of reagents or increase in nonspecific staining may occur.
5. As with any product derived from biological sources, proper handling procedures should be used.
6. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
7. Unused solution should be disposed of according to local, State and Federal regulations.

Storage
Store in the dark at 2-8 °C. Do not use after expiration date stamped on vial. If reagents are stored under any conditions other than those specified, the conditions must be verified by the user. There are no obvious signs to indicate instability of this product. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the reagent is suspected, contact Dako Technical Support.

Product-specific limitations
It has been observed that PerCP-Cy5.5-conjugates may bind to monocytes, resulting in background staining.

References
### Explanation of symbols

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