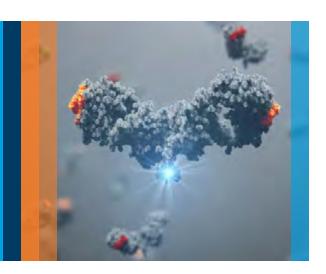# Maximize Detection of Light Chains

Reduce dubiously negative, dual-positive, or difficult-to-interpret results by using Agilent Dako rabbit polyclonal anti-kappa or lambda light chain reagents.
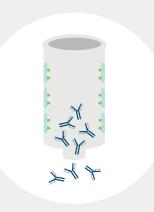
Key characteristics of Agilent Dako rabbit polyclonal reagents

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Robust immunization

The strain and pool of rabbits used in producing our polyclonal antibodies ensures steady response and yields of optimal reproducibility. Robust production standards result in reliable lot-to-lot output.
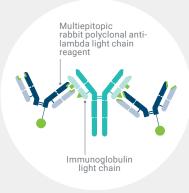

High-grade purity

Several purification steps select solely for light reactivity removing unspecific antibodies and other serum proteins. The process results in highly purified and specific reagents with minimal background noise or cross-reactivity.

Inherent consistency

By targeting multiple epitopes of the light chain, our rabbit polyclonal reagents have an inherent capacity to accommodate antigen polymorphisms, ensuring consistent staining in difficult cases.
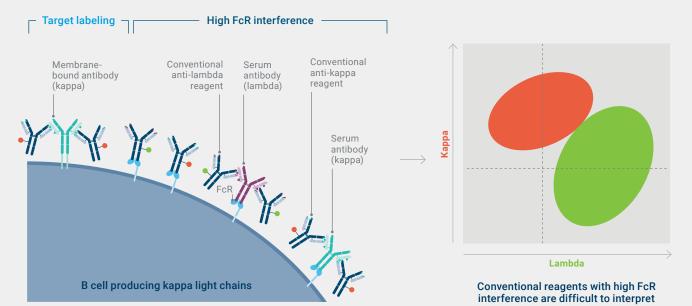

Multiepitopic rabbit polyclonal anti-lambda light chain reagent

Immunoglobulin light chain

Enhanced specificity

$F(ab')_2$ fragments do not contain the Fc region and cannot bind to Fc receptors. The elimination of off-target binding is expected to reduce noise caused by FcR interference.
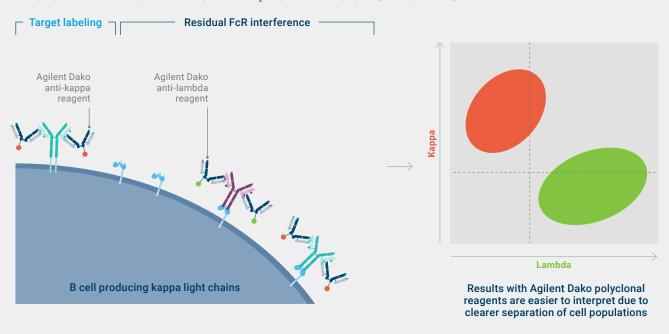
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Eliminate interference of the reagent with cellular Fc receptors and ensure meaningful separation of kappa vs lambda light chain populations despite residual cross-staining from serum antibodies

Using conventional anti-light chain reagents containing Fc region

Target labeling

High FcR interference

Membrane-bound antibody (kappa)

Conventional anti-lambda reagent

Serum antibody (lambda)

Conventional anti-kappa reagent

Serum antibody (kappa)

FcR

B cell producing kappa light chains

Conventional reagents with high FcR interference are difficult to interpret

Kappa

Lambda

Using Agilent Dako anti-light chain reagents F(ab')$_2$ fragments of high purity and specificity

Target labeling

Residual FcR interference

Agilent Dako anti-kappa reagent

Agilent Dako anti-lambda reagent

B cell producing kappa light chains

Results with Agilent Dako polyclonal reagents are easier to interpret due to clearer separation of cell populations

Kappa

Lambda

Agilent

Trusted Answers