MultiMix™
Dual-Colour Reagent
Anti-Human Kappa Light Chains/FITC
Anti-Human Lambda Light Chains/RPE
Code FR481

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

Summary and explanation
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-positive and lambda-positive cells, with two-thirds of the cells expressing kappa and one-third expressing lambda (1).

In FR481 Anti-Kappa Light Chains reacts with free kappa chains as well as kappa chains in intact immunoglobulin molecules, while Anti-Lambda Light Chains reacts with free lambda chains as well as lambda chains in intact immunoglobulin molecules.

Reagent provided
FR481 comprises the following two, matched, fluorescent antibodies:
Polyclonal Rabbit Anti-Human Kappa Light Chains conjugated with fluorescein isothiocyanate isomer 1 (FITC).
Polyclonal Rabbit Anti-Human Lambda Light Chains conjugated with R-phycoerythrin (RPE).
The two conjugates in FR481, Anti-Kappa Light Chains and Anti-Lambda Light Chains, have been produced from F(ab')2 fragments of affinity-isolated polyclonal rabbit antibodies. FR481 is provided in liquid form in buffer containing 1% bovine serum albumin (BSA) and 15 mmol/L NaNO₃, pH 7.2.

Immunogens
Rabbit Anti-Human Lambda Light Chains: Polyclonal immunoglobulin light chains of lambda type isolated from a pool of human sera.

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. As with any product derived from biological sources, proper handling procedures should be used.
5. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
6. 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 results are observed which cannot be explained by variations in laboratory procedures and a problem with the reagent is suspected, contact Support.

References