Polyclonal Rabbit Anti-Human Kappa Light Chains/APC, Rabbit F(ab')2  
Polyclonal Rabbit Anti-Human Kappa Light Chains/FITC, Rabbit F(ab')2  
Polyclonal Rabbit Anti-Human Kappa Light Chains/RPE, Rabbit F(ab')2

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

Summary and explanation
Most B cells, with the exception of pre-B progenitors and 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).

The antibody in C0222, F0434 and R0436 recognizes free kappa chains as well as kappa chains present in intact immunoglobulin molecules. The specificity of the antibody was ascertained by crossed immunoelectrophoresis. To obtain maximum sensitivity, the crossed immunoelectrophoresis was performed prior to affinity purification, F(ab')2 fragmentation and conjugation.

Reagent provided
C0222, F0434 and R0436 are conjugated F(ab')2 fragments of an affinity-isolated polyclonal rabbit antibody preparation. The conjugates are provided in liquid form in buffer containing 1% bovine serum albumin (BSA) and 15 mmol/L NaNO3, pH 7.2.

Preparation
1. The immunoglobulin fraction was isolated from rabbit antiserum to kappa light chains by salting out and ion exchange chromatography.
2. The immunoglobulin fraction was solid-phase absorbed with human plasma proteins to remove traces of contaminating antibodies.
3. The specific antibody molecules to kappa light chains were then isolated from the absorbed immunoglobulin fraction by affinity chromatography on a column with immobilized human kappa light chains.
4. The affinity-isolated antibody molecules were degraded with pepsin, and the F(ab')2 fragments isolated by gel filtration.
5. Finally, the F(ab')2 fragments were conjugated with allophycocyanin (APC), fluorescein isothiocyanate isomer 1 (FITC), or R-phycocerythrin (RPE).

Immunogen
Polyclonal immunoglobulin light chains of kappa 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. 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.

References
## Explanation of symbols

<table>
<thead>
<tr>
<th>REF</th>
<th>Catalogue number</th>
<th>Keep away from sunlight (consult storage section)</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Consult instructions for use</th>
<th>LOT</th>
<th>Batch code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Consult instructions for use</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Temperature limitation</th>
<th>Use by</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Manufactured by:**
Dako Denmark A/S  
Produktionsvej 42  
DK-2600 Glostrup
Tel. +45 44 85 95 00  
Fax +45 44 85 95 95  
www.dako.com

**Distributed by:**
Dako North America, Inc.  
6392 Via Real  
Carpinteria, California 93013 USA
Tel. 805 566 6655  
Fax 805 566 6688  
Technical Support 800 424 0021  
Customer Service 800 235 5763