Product datasheet

Anti-Lambda Light chain antibody, prediluted ab74316

⭐⭐⭐⭐⭐ 1 Abreviews    2 Images

Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Lambda Light chain antibody, prediluted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to Lambda Light chain, prediluted</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Specificity</td>
<td>We have data to indicate that this antibody may not cross react with Dog. However, this has not been conclusively tested and expression levels may vary in certain cell lines/tissues.</td>
</tr>
</tbody>
</table>

Tested applications

Suitable for: IHC-P

Species reactivity

Reacts with: Mouse, Rat, Human, Baboon

Immunogen

Lambda light chains purified from human Bence Jones proteins.

Positive control

Tonsil

Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Prediluted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at +4°C.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>pH: 7.60</td>
</tr>
<tr>
<td></td>
<td>Preservative: 0.097% Sodium azide</td>
</tr>
<tr>
<td></td>
<td>Constituent: 7.9% Tris HCl</td>
</tr>
</tbody>
</table>

Purity

IgG fraction

Clonality

Polyclonal

Isotype

IgG

Applications

Our Abpromise guarantee covers the use of ab74316 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td></td>
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</tbody>
</table>
Application notes

IHC-P: Prediluted ready for use. Perform heat mediated antigen retrieval before commencing with IHC staining protocol by boiling tissue sections in 10mM citrate buffer pH 6.0 for 10-20 mins, followed by cooling at RT for 20 mins.

Target

Relevance

All five immunoglobulin classes share the same basic four polypeptide chain structure of two heavy-chains and two light chains. There are five heavy chain types, and two light-chain types (Kappa and Lambda) both having a molecular weight of 22.5kDa. Any heavy-chain type can associate with either light-chain type, but on any immunoglobulin molecule both light-chains are of the same type. Kappa and Lambda consist of a variable region and a constant region and can easily be differentiated by the antigenic properties of the constant region. The ratio of Kappa to Lambda is 70:30, the vast majority of which is bound to heavy-chain in immunoglobulin. In normal individuals low levels of free light-chain are present in serum (kappa, 1.6-15.2 mg/L; Lambda, 0.4-4.2mg/L), with the occurrence of multiple myeloma or other B-cell malignancies these levels can be greatly elevated and can be found at high levels in the urine (Bence-Jones proteins).

Cellular localization

Cytoplasmic

Images

ab74316 staining Lambda Light chain in Rat lymph node tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 10 minutes at 25°C; antigen retrieval was by heat mediation in EDTA pH9. Samples were incubated with primary antibody for 16 hours at 25°C. An undiluted HRP-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lambda Light chain antibody, prediluted (ab74316)

Cytoplasmic staining of B cells in formalin-fixed, paraffin-embedded human tonsil using ab74316 with a peroxidase-conjugated secondary antibody and a DAB chromogen.

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