abcam

Product datasheet

HRP Anti-Lambda Light chain antibody [EPR5367-62] ab200966

Recombinant RabMAb

4 Images

Overview

Product name	HRP Anti-Lambda Light chain antibody [EPR5367-62]
Description	HRP Rabbit monoclonal [EPR5367-62] to Lambda Light chain
Host species	Rabbit
Conjugation	HRP
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human
Immunogen	Purified Human IgA.
Positive control	WB: Human tonsil, plasma and spleen tissue lysates. IHC-P: normal human tonsil tissue sections
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5367-62

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab200966 in the following tested applications.

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

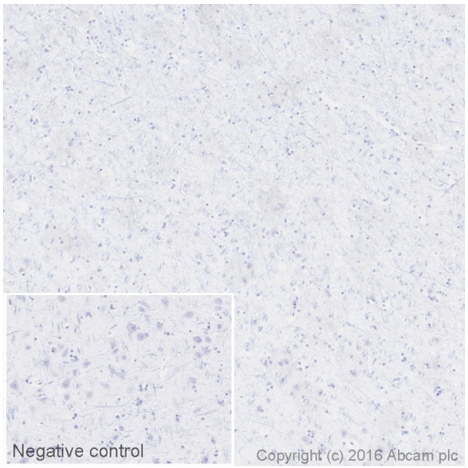
Application	Abreviews	Notes
IHC-P		1/2500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/5000. Detects a band of approximately 28 kDa (predicted molecular weight: 23 kDa).

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 arepresent 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

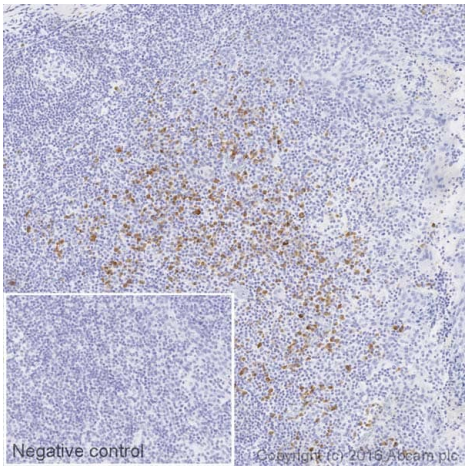
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Lambda Light chain antibody [EPR5367-62] (ab200966)

Negative IHC image of Lambda Light chain staining in a section of formalin-fixed paraffin-embedded normal human cerebral cortex, performed on a Leica BOND™. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab200966, 1/2500 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

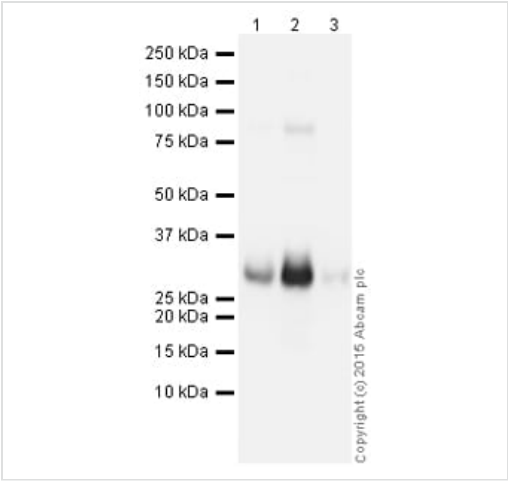


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Lambda Light chain antibody [EPR5367-62] (ab200966)

IHC image of Lambda Light chain staining in a section of formalin-fixed paraffin-embedded normal human tonsil*, performed on a Leica BOND™. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab200966, 1/2500 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - HRP Anti-Lambda Light chain antibody [EPR5367-62] (ab200966)

All lanes : HRP Anti-Lambda Light chain antibody [EPR5367-62] (ab200966) at 1/5000 dilution

Lane 1 : Tonsil (Human) Whole Cell Lysate - adult normal tissue
Lane 2 : Human Plasma Total Protein Lysate
Lane 3 : Spleen (Human) Tissue Lysate - adult normal tissue

Lysates/proteins at 10 µg per lane.

Performed under reducing conditions.

Predicted band size: 23 kDa
Observed band size: 28 kDa

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab200966 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

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