

Product datasheet

Anti-Kappa light chain antibody [EPR5367-8] - BSA and Azide free ab232152

Recombinant RabMAb

5 Images

Overview

Product name	Anti-Kappa light chain antibody [EPR5367-8] - BSA and Azide free
Description	Rabbit monoclonal [EPR5367-8] to Kappa light chain - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IP, IHC-P, WB, ELISA
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified) corresponding to Human Kappa light chain. Purified Human IgA
Positive control	IP: Human spleen lysate. WB: Human tonsil, plasma and spleen lysate; IHC: Human tonsil lysate.
General notes	<p>ab232152 is the carrier-free version of ab124727.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5367-8
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab232152 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
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval is recommended.
WB		Use at an assay dependent concentration. Predicted molecular weight: 25 kDa.
ELISA		Use at an assay dependent concentration.

Target

Relevance

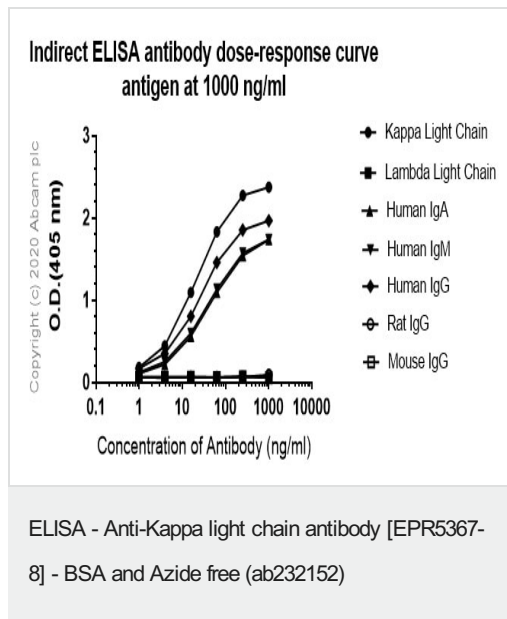
Immunoglobulins belong to a group of related glyco proteins which make up 20% of serum proteins. Antigens and immunoglobulins react to confer immunity to individuals. Immunoglobulins have similar structures of two identical heavy chains and two identical light chains. Both the heavy chains and the light chains are divided into constant and variable regions. The constant regions have the same amino acid sequences between all the immunoglobulin classes. The variable

regions have approximately 110 amino acids with high sequence variability. The amino acid sequence of the heavy chain determines the class of an immunoglobulin. The five types of immunoglobulin heavy chains are known as: IgG, IgA, IgM, IgD, and IgE. IgG is divided into four subclasses, and IgA is divided into two subclasses. In serum IgA and IgG are monomers with a single 4 polypeptide unit; while, IgM is a pentamer. IgA may also form polymers. Kappa light chain antibody can be used for the identification of leukemias, plasmacytomas and certain non Hodgkin's lymphomas. Kappa light chain contains one immunoglobulin like domain. The EU sequence has the INV allotypic marker, Ala 45 and Val 83. The ROY sequence has the INV allotypic marker, Ala 45 and Leu 83.

Cellular localization

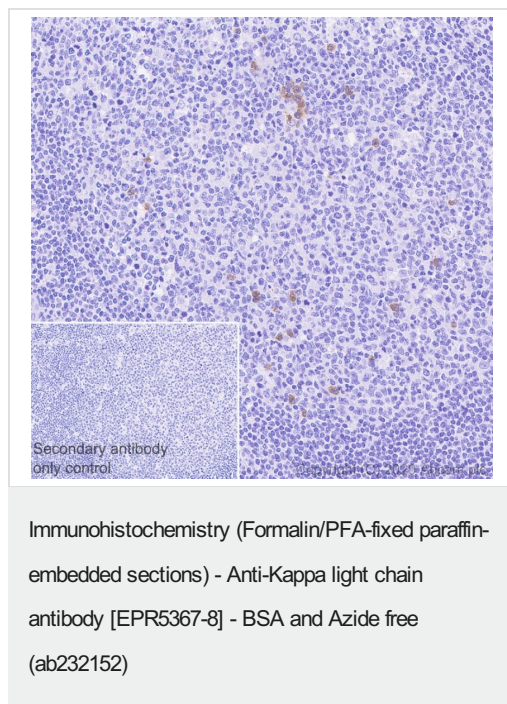
Cytoplasmic and Secreted

Images



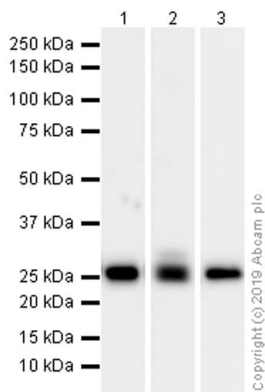
This data was developed using [ab124727](#), the same antibody clone in a different buffer formulation.

ELISA analysis of Kappa Light Chains, Lambda Light Chains, Human IgA, Human IgM, Human IgG, Rat IgG, and Mouse IgG at 1000ng/mL using purified [ab124727](#). Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) was used as the secondary antibody at 1/2500 dilution.



This data was developed using [ab124727](#), the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling Kappa light chain with purified [ab124727](#) at 1/5000 dilution (0.06 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-Kappa light chain antibody [EPR5367-8] - BSA and Azide free (ab232152)

Lane 1 : Anti-Kappa light chain antibody [EPR5367-8] (**ab124727**) at 1/5000 dilution (Purified)

Lanes 2-3 : Anti-Kappa light chain antibody [EPR5367-8] (**ab124727**) at 1/5000 dilution

Lane 1 : Human tonsil lysate

Lane 2 : Human plasma lysate at 15 µg

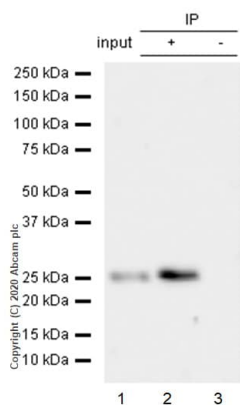
Lane 3 : Human spleen lysate at 15 µg

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 25 kDa

This data was developed using **ab124727**, the same antibody clone in a different buffer formulation.



Immunoprecipitation - Anti-Kappa light chain antibody [EPR5367-8] - BSA and Azide free (ab232152)

This data was developed using **ab124727**, the same antibody clone in a different buffer formulation.

Purified **ab124727** at 1/50 dilution (2µg) immunoprecipitating Kappa light chain in Human spleen lysate.

Lane 1 (input): Human spleen lysate 10µg

Lane 2 (+): **ab124727** + Human spleen lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab124727** in Human spleen lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFD/MTBST.

Diluting buffer and concentration: 5% NFD/MTBST.

Observed band size: 25 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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