

Product datasheet

Anti-LIMK2 antibody [EP969Y] - BSA and Azide free ab236007

KO VALIDATED Recombinant RabMAb[®]

4 Images

Overview

Product name	Anti-LIMK2 antibody [EP969Y] - BSA and Azide free
Description	Rabbit monoclonal [EP969Y] to LIMK2 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human LIMK2 aa 600-700 (C terminal). The exact sequence is proprietary.
Positive control	WB: Wild-type HAP1 whole cell lysate; Jurkat whole cell lysate.
General notes	<p>ab236007 is the carrier-free version of ab45165 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</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>Ab236007 is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar[®] is a trademark of Fluidigm Canada Inc.</i></p> <p>Previously labelled as LIM kinase 2.</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> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next</p>

breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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	EP969Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab236007** in the following tested applications.

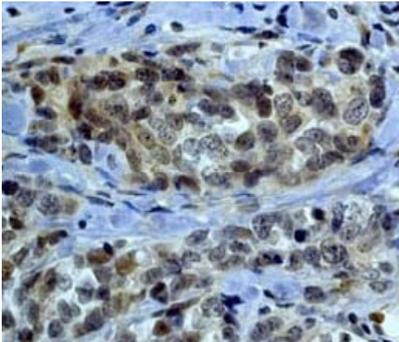
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 72 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Displays serine/threonine-specific phosphorylation of myelin basic protein and histone (MBP) in vitro.
Tissue specificity	Highest expression in the placenta; moderate level in liver, lung, kidney, and pancreas. LIMK2a is found to be more abundant than LIMK2b in liver, colon, stomach, and spleen, while in brain, kidney, and placenta LIMK2b is the dominant form. In adult lung, both LIMK2a and LIMK2b is nearly equally observed.
Sequence similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Contains 2 LIM zinc-binding domains. Contains 1 PDZ (DHR) domain. Contains 1 protein kinase domain.
Post-translational modifications	Phosphorylated on serine and/or threonine residues by ROCK1.
Cellular localization	Cytoplasm. Nucleus. Isoform LIMK2a is distributed in the cytoplasm and the nucleus and Cytoplasm. Nucleus. Isoform LIMK2b occurs mainly in the cytoplasm and is scarcely translocated to the nucleus.

Images

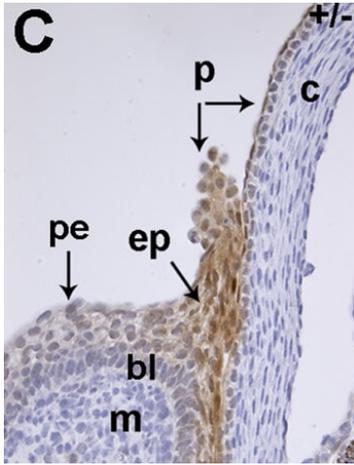


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LIMK2 antibody [EP969Y] - BSA and Azide free (ab236007)

[ab45165](#) staining LIMK2 in human ovary carcinoma by immunohistochemistry using paraffin embedded tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab45165](#)).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



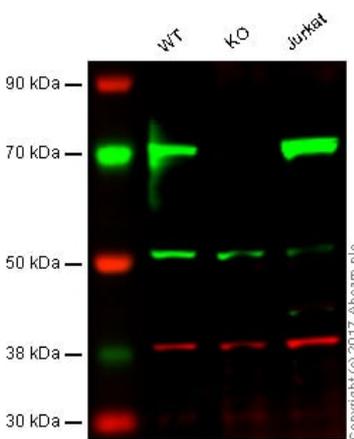
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LIMK2 antibody [EP969Y] - BSA and Azide free (ab236007)

Image from Rice DS et al. PLoS One. 2012;7(10):e47168. doi: 10.1371/journal.pone.0047168. Epub 2012 Oct 5.; Fig 6.; October 5 2012 PLoS ONE 7(10): e47168.

Immunohistochemical analysis of mouse upper eyelid tissue, staining LIMK2 with [ab45165](#) at 1/200 dilution. Staining was detected using DAB.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab45165](#)).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-LIMK2 antibody [EP969Y] - BSA and Azide free (ab236007)

Lane 1: Wild-type HAP1 whole cell lysate (40 μ g)

Lane 2: LIMK2 knockout HAP1 whole cell lysate (40 μ g)

Lane 3: Jurkat whole cell lysate (40 μ g)

Lanes 1 - 3: Merged signal (red and green). Green - [ab45165](#) observed at 72 kDa. Red - loading control, [ab9484](#), observed at 37 kDa.

[ab45165](#) was shown to specifically recognize LIMK2 (LIM kinase 2) in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed with knockout cells were examined. Wild-type and LIMK2 (LIM kinase 2) knockout samples were subjected to SDS-PAGE. [Ab45165](#) and [ab9484](#) (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/2000 dilution and 1/20,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1/20,000 dilution for 1 hour at room temperature before imaging.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab45165](#)).

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

Anti-LIMK2 antibody [EP969Y] - BSA and Azide free
(ab236007)

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

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