

Product datasheet

HRP Anti-Ezrin antibody [EP886Y] ab198522

KO VALIDATED

Recombinant

RabMAb

4 Images

Overview

Product name	HRP Anti-Ezrin antibody [EP886Y]
Description	HRP Rabbit monoclonal [EP886Y] to Ezrin
Host species	Rabbit
Conjugation	HRP
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa whole cell lysate. IHC-P: normal human lung tissue.
General notes	<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>

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. Avoid freeze / thaw cycle. 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	EP886Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab198522 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
WB		1/5000. Detects a band of approximately 80 kDa (predicted molecular weight: 69 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. ab199507 - Rabbit monoclonal IgG (HRP), is suitable for use as an isotype control with this antibody.

Target

Function	Probably involved in connections of major cytoskeletal structures to the plasma membrane. In epithelial cells, required for the formation of microvilli and membrane ruffles on the apical pole. Along with PLEKHG6, required for normal macropinocytosis.
Tissue specificity	Expressed in cerebral cortex, basal ganglia, hippocampus, hypophysis, and optic nerve. Weakly expressed in brain stem and diencephalon. Stronger expression was detected in gray matter of frontal lobe compared to white matter (at protein level). Component of the microvilli of intestinal epithelial cells. Preferentially expressed in astrocytes of hippocampus, frontal cortex, thalamus, parahippocampal cortex, amygdala, insula, and corpus callosum. Not detected in neurons in most tissues studied.
Sequence similarities	Contains 1 FERM domain.
Developmental stage	Very strong staining is detected in the Purkinje cell layer and in part of the molecular layer of the infant brain compared to adult brain.
Post-translational modifications	Phosphorylated by tyrosine-protein kinases.
Cellular localization	Apical cell membrane. Cell projection. Cell projection > microvillus membrane. Cell projection > ruffle membrane. Cytoplasm > cell cortex. Cytoplasm > cytoskeleton. Localization to the apical membrane of parietal cells depends on the interaction with MPP5. Localizes to cell extensions and peripheral processes of astrocytes (By similarity). Microvillar peripheral membrane protein.

Images



Western blot - HRP Anti-Ezrin antibody [EP886Y] (ab198522)

All lanes : HRP Anti-Ezrin antibody [EP886Y] (ab198522) at 1/5000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : EZR (Ezrin) knockout HAP1 whole cell lysate

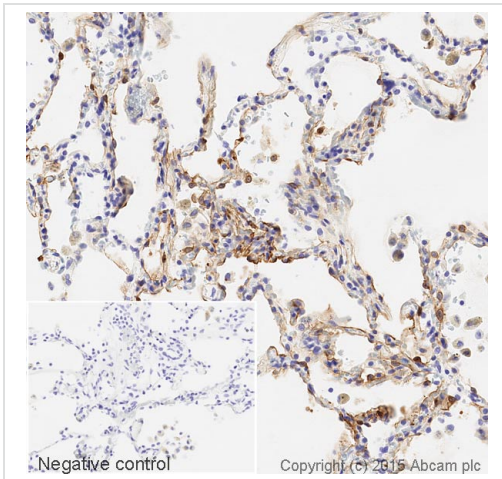
Lysates/proteins at 20 µg per lane.

Predicted band size: 69 kDa

Observed band size: 80 kDa

Exposure time: 1 minute

ab198522 was shown to specifically react with Ezrin in wild-type HAP1 cells as signal was lost in EZR (Ezrin) knockout cells. Wild-type and EZR (Ezrin) knockout samples were subjected to SDS-PAGE. Ab198522 and **ab184095** (Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control (Alexa Fluor® 680) loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/1000 dilution respectively. The loading control was imaged using the Licor Odyssey CLx prior to blots being developed with ECL technique.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Ezrin antibody [EP886Y] (ab198522)

IHC image of Ezrin staining in a section of formalin-fixed paraffin-embedded normal human lung*, 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 ab198522 at 1/100 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-Ezrin antibody [EP886Y] (ab198522)

HRP Anti-Ezrin antibody [EP886Y] (ab198522) at 1/5000 dilution + HeLa whole cell lysate ([ab150035](#)) at 10 µg

Developed using the ECL technique.

Performed under reducing conditions.

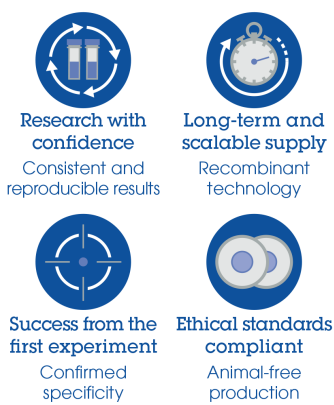
Predicted band size: 69 kDa

Observed band size: 80 kDa

Exposure time: 18 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab198522 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).

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

HRP Anti-Ezrin antibody [EP886Y] (ab198522)

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