

Anti-LEPRE1/P3H1 antibody [EPR10193(B)] - BSA and Azide free ab249107

Recombinant RabMAb

4 Images

Overview

Product name	Anti-LEPRE1/P3H1 antibody [EPR10193(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR10193(B)] to LEPRE1/P3H1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), Indirect ELISA, ICC/IF, WB Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab249107 is the carrier-free version of ab154799.</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>

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	Affinity purified
Clonality	Monoclonal
Clone number	EPR10193(B)
Isotype	IgG

Applications

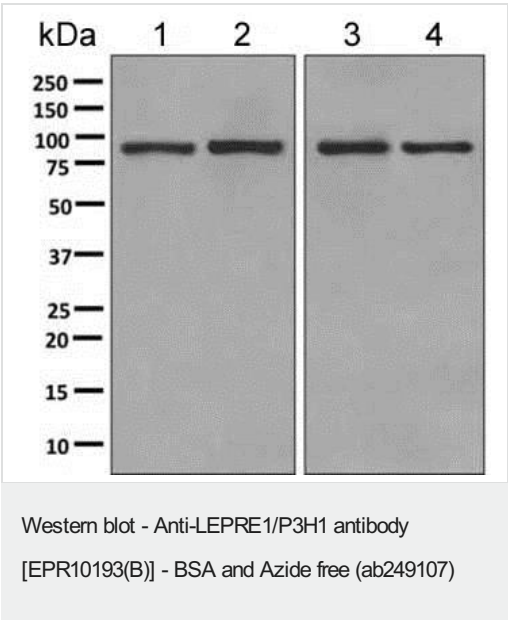
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249107 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
Indirect ELISA		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 83 kDa.

Application notes Is unsuitable for IHC-P or IP.

Target

Function	Basement membrane-associated chondroitin sulfate proteoglycan (CSPG). Has prolyl 3-hydroxylase activity catalyzing the post-translational formation of 3-hydroxyproline in -Xaa-Pro-Gly-sequences in collagens, especially types IV and V. May be involved in the secretory pathway of cells. Has growth suppressive activity in fibroblasts.
Involvement in disease	Defects in LEPRE1 are the cause of osteogenesis imperfecta type 8 (OI8) [MIM:610915]. A connective tissue disorder characterized by disproportionate short stature, severe osteoporosis, shortening of the long bones, white sclerae, a round face and a short barrel-shaped chest.
Sequence similarities	Belongs to the leprecan family. Contains 1 Fe2OG dioxygenase domain. Contains 4 TPR repeats.
Post-translational modifications	O-glycosylated; chondroitin sulfate.
Cellular localization	Endoplasmic reticulum. Secreted > extracellular space > extracellular matrix. Secreted into the extracellular matrix as a chondroitin sulfate proteoglycan.



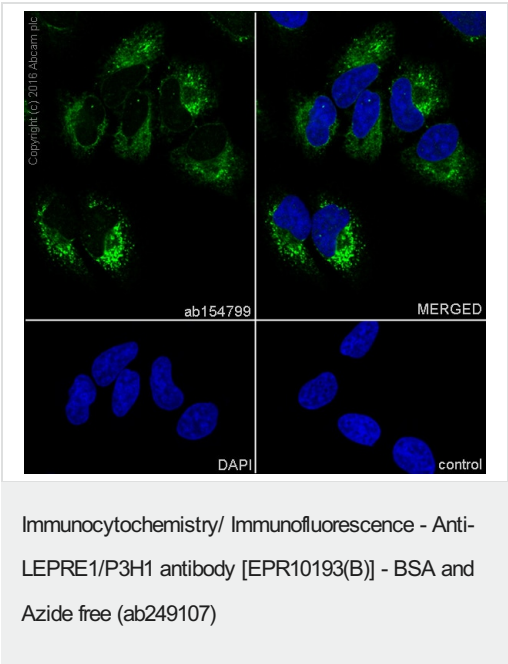
All lanes : Anti-LEPRE1/P3H1 antibody [EPR10193(B)]
([ab154799](#)) at 1/1000 dilution

Lane 1 : HeLa cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : A549 cell lysate
Lane 4 : Human placenta tissue lysate

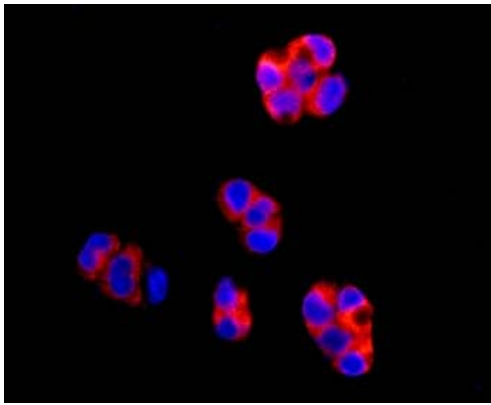
Lysates/proteins at 10 µg per lane.

Predicted band size: 83 kDa

This data was developed using [ab154799](#), the same antibody clone in a different buffer formulation.



This data was developed using [ab154799](#), the same antibody clone in a different buffer formulation. Immunocytochemistry/Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) labeling LEPRE1/P3H1 with Purified [ab154799](#) at 1/500 dilution (5µg/ml). Cells were fixed with 100% methanol. [ab150077](#) Goat anti rabbit IgG(Alexa Fluor® 488) at 1/1000 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.



Immunocytochemistry/ Immunofluorescence - Anti-LEPRE1/P3H1 antibody [EPR10193(B)] - BSA and Azide free (ab249107)

This data was developed using **ab154799**, the same antibody clone in a different buffer formulation. Immunofluorescence analysis of HepG2 cells labeling LEPRE1/P3H1 with **ab154799** at 1/250 dilution.

Why choose a recombinant antibody?



Anti-LEPRE1/P3H1 antibody [EPR10193(B)] - BSA and Azide free (ab249107)

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

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