abcam

Product datasheet

Anti-LEPRE1/P3H1 antibody ab244326

★★★★★ 1 Abreviews 6 Images

Overview

Product name	Anti-LEPRE1/P3H1 antibody
Description	Rabbit polyclonal to LEPRE1/P3H1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Recombinant fragment corresponding to Human LEPRE1/P3H1 aa 300-450. Database link: **Q32P28** Run BLAST with Run BLAST with
Positive control	WB: U-2 OS cell lysate. IHC-P: Human placenta, liver, prostate and cervix tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab244326 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)	Use a concentration of 0.04 - 0.4 µg/ml.
IHC-P		1/50 - 1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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.

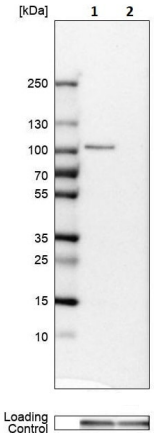
Involvement in disease Defects in LEPRE1 are the cause of osteogenesis imperfecta type 8 (OI8) [MIM:610915]. A connective tissue disorder characterized by disproportionate short stature, severe osteoporosis, shortening of the long bones, white sclerae, a round face and a short barrel-shaped chest.

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.

Images

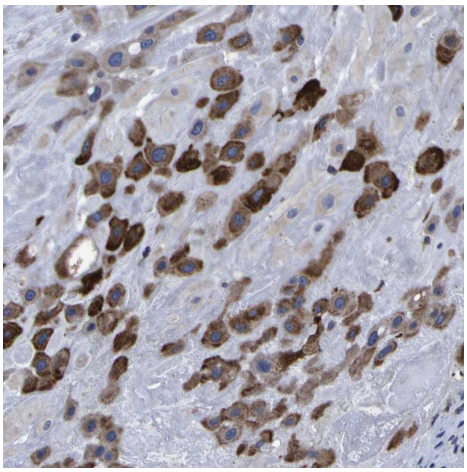


Western blot - Anti-LEPRE1/P3H1 antibody (ab244326)

All lanes : Anti-LEPRE1/P3H1 antibody (ab244326) at 0.4 µg/ml

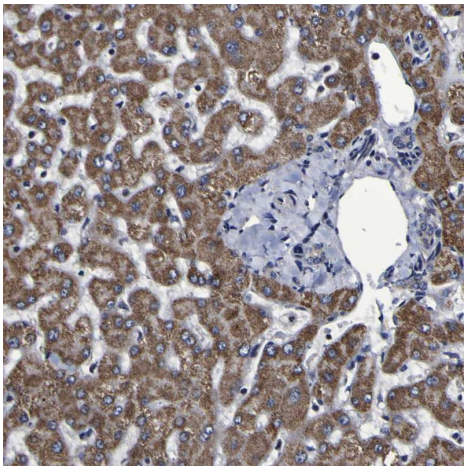
Lane 1 : U-2 OS (Human bone osteosarcoma epithelial cell line) cell lysate

Lane 2 : MCF7 (Human breast adenocarcinoma cell line) cell lysate



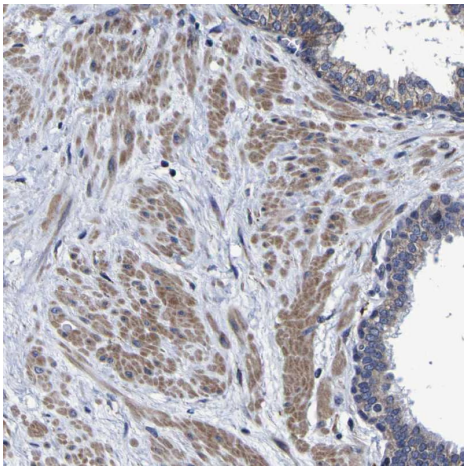
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LEPRE1/P3H1 antibody (ab244326)

Formalin-fixed, paraffin-embedded human placenta tissue stained for LEPRE1/P3H1 with ab244326 at a 1/50 dilution in immunohistochemical analysis.



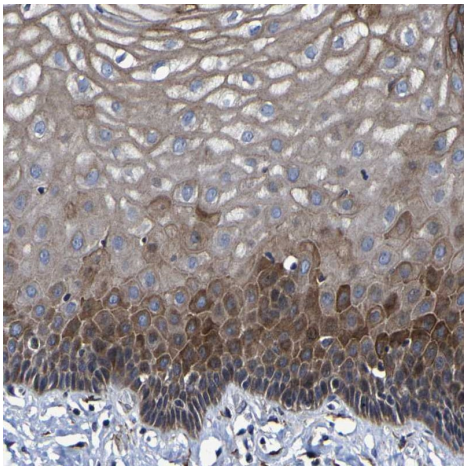
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LEPRE1/P3H1 antibody (ab244326)

Formalin-fixed, paraffin-embedded human liver tissue stained for LEPRE1/P3H1 with ab244326 at a 1/50 dilution in immunohistochemical analysis.



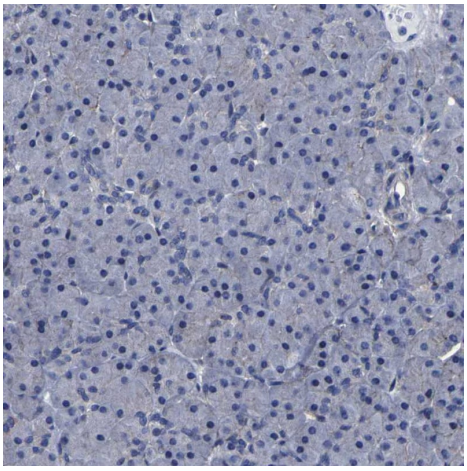
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LEPRE1/P3H1 antibody (ab244326)

Formalin-fixed, paraffin-embedded human prostate tissue stained for LEPRE1/P3H1 with ab244326 at a 1/50 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LEPRE1/P3H1 antibody (ab244326)

Formalin-fixed, paraffin-embedded human cervix tissue stained for LEPRE1/P3H1 with ab244326 at a 1/50 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LEPRE1/P3H1 antibody (ab244326)

Formalin-fixed, paraffin-embedded human pancreas tissue shows absence of immunoreactivity for LEPRE1/P3H1 when incubated with ab244326 at a 1/50 dilution (negative control).

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

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