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LEPRE1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20704c

Product Information

Application	WB, E
Primary Accession	Q32P28
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB49867
Calculated MW	83394

Additional Information

Gene ID	64175
Other Names	Prolyl 3-hydroxylase 1, Growth suppressor 1, Leucine- and proline-enriched proteoglycan 1, Leprecan-1, LEPRE1, GROS1, P3H1
Target/Specificity	This LEPRE1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 499-533 amino acids from the Central region of human LEPRE1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LEPRE1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	P3H1 (HGNC:19316)
Function	Has prolyl 3-hydroxylase activity and catalyzes the post- translational formation of 3-hydroxyproline in -Xaa-Pro-Gly- sequences in pro-collagen chains, a critical step for the formation of mature collagen trimers (PubMed:39245686). May be involved in the secretory pathway of cells. Has

growth suppressive activity in fibroblasts.

Cellular Location [Isoform 1]: Endoplasmic reticulum

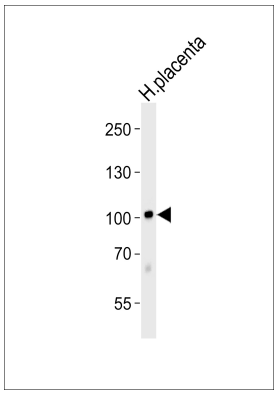
Background

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.

References

Kaul S.C.,et al.Oncogene 19:3576-3583(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Otsuki T.,et al.DNA Res. 12:117-126(2005).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Cabral W.A.,et al.Nat. Genet. 39:359-365(2007).

Images



Western blot analysis of lysate from human placenta tissue lysate, using LEPRE1 Antibody (Center)(Cat. #AP20704c). AP20704c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.