

LEPREL2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58369

Specification

LEPREL2 Polyclonal Antibody - Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q8IVL6
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LEPREL2
Epitope Specificity	351-450/736
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum.
SIMILARITY	Belongs to the leprecan family. Contains 1 Fe2OG dioxygenase domain. Contains 4 TPR repeats.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

LEPREL2 belongs to a family of collagen prolyl hydroxylases required for proper collagen biosynthesis, folding, and assembly.

LEPREL2 Polyclonal Antibody - Additional Information

Gene ID 10536

Other Names

Prolyl 3-hydroxylase 3 {ECO:0000312|HGNC:HGNC:19318}, 1.14.11.7, Leprecan-like protein 2, Protein B, P3H3 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=19318)

Target/Specificity

Weak expression in heart, lung, ovary and skeletal muscle.

Dilution

IHC-P ~ N/A
IHC-F ~ N/A

=IF~~1:50~200<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

LEPREL2 Polyclonal Antibody - Protein Information

Name P3H3 ([HGNC:19318](#))

Function

Part of a complex composed of PLOD1, P3H3 and P3H4 that catalyzes hydroxylation of lysine residues in collagen alpha chains and is required for normal assembly and cross-linking of collagen fibrils. Required for normal hydroxylation of lysine residues in type I collagen chains in skin, bone, tendon, aorta and cornea. Required for normal skin stability via its role in hydroxylation of lysine residues in collagen alpha chains and in collagen fibril assembly. Apparently not required for normal prolyl 3-hydroxylation on collagen chains, possibly because it functions redundantly with other prolyl 3-hydroxylases.

Cellular Location

Endoplasmic reticulum {ECO:0000255|PROSITE- ProRule:PRU10138}

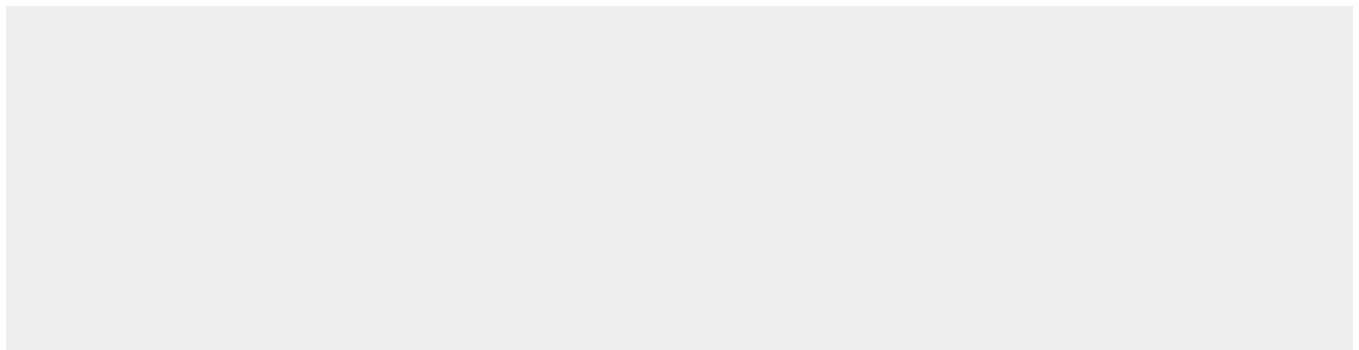
Tissue Location

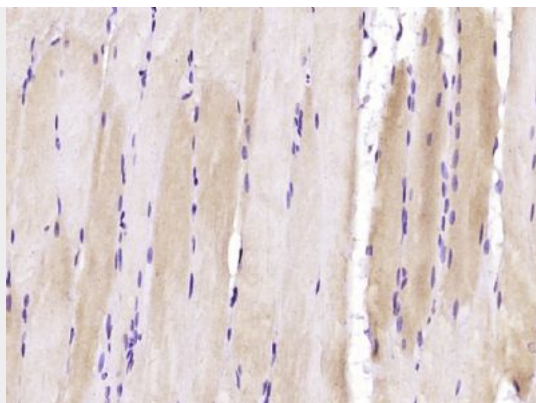
Detected in fetal cartilage (at protein level) (PubMed:28115524). Weak expression in heart, lung, ovary and skeletal muscle (PubMed:8723724).

LEPREL2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LEPREL2 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LEPREL2) Polyclonal Antibody, Unconjugated (bs-6068R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.