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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 (HGNC:19318)

Target/Specificity
Weak expression in heart, lung, ovary and skeletal muscle.

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \><span class

="dilution_IF">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 ℃ 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 ℃.

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-linkling 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 Cytomety
- Cell Culture

LEPREL2 Polyclonal Antibody - Images

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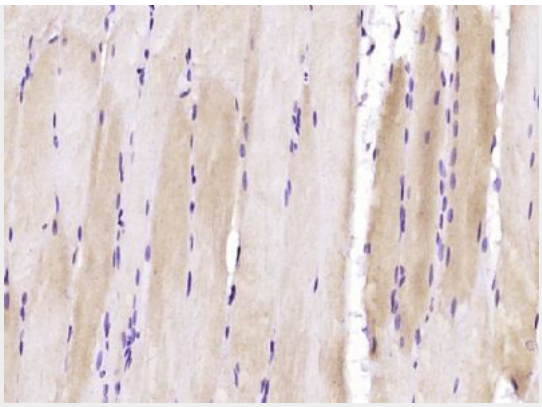

Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LEPREL2) Polyclonal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