

For Research Use Only

# P3H2 Polyclonal antibody

Catalog Number: 15723-1-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

15723-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8444

### GenBank Accession Number:

BC005029

### GeneID (NCBI):

55214

### UNIPROT ID:

Q8IVL5

### Full Name:

leprecan-like 1

### Calculated MW:

708aa, 81 kDa; 527aa, 60 kDa

### Observed MW:

80 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

**WB**: L02 cells, HEK-293 cells, mouse placenta tissue, mouse kidney tissue, human placenta tissue

**IP**: mouse kidney tissue,

**IHC**: human liver tissue, human kidney tissue, human placenta tissue, human testis tissue, human skin tissue, human brain tissue, human lung tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

P3H2 (prolyl 3-hydroxylase 2, also known as LEPREL1) is a member of the leprecan family of proteins, which also include P3H1, P3H3, CRTAP and SC56. Collagen prolyl hydroxylases are required for proper collagen biosynthesis, folding, and assembly. P3H2 shows prolyl 3-hydroxylase activity catalyzing the post-translational formation of 3-hydroxyproline in -Xaa-Pro-Gly-sequences in collagens, especially types II, IV and V. Mutations in this gene are associated with nonsyndromic severe myopia with cataract and vitreoretinal degeneration, and downregulation of this gene may play a role in breast cancer.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nathan T Montgomery	29491144	J Biol Chem	WB
David M Hudson	25645914	J Biol Chem	WB
Takahiro Isono	36581661	Sci Rep	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

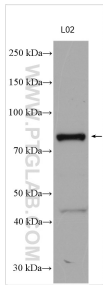
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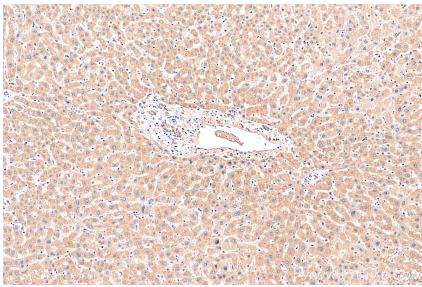
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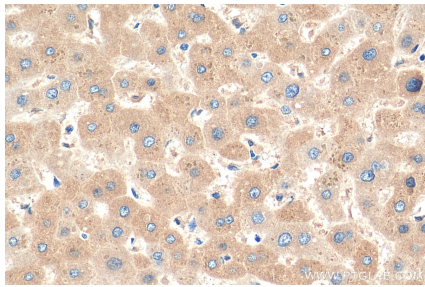
Selected Validation Data



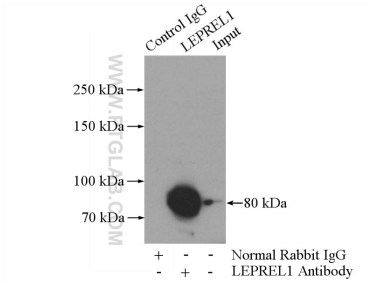
L02 cells were subjected to SDS PAGE followed by western blot with 15723-1-AP (P3H2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15723-1-AP (P3H2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15723-1-AP (P3H2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-P3H2 (IP:15723-1-AP, 4ug; Detection:15723-1-AP 1:600) with mouse kidney tissue lysate 4000ug.