



# P3H2 Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-07851                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>                | WB;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>                   | LEPREL1 MLAT4 P3H2                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Immunogen</b>                   | Synthesized peptide derived from part region of human protein                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Specificity</b>                 | P3H2 Polyclonal Antibody detects endogenous levels of protein.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Dilution</b>                    | WB 1:500-2000 ELISA 1:5000-20000                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>                    | leprecan like 1;Leprecan like protein 1;LEPREL1;MLAT4;P3H2;Prolyl 3;LEPREL1 MLAT4 P3H2;Prolyl 3-hydroxylase 2 (EC 1.14.11.7) (Leprecan-like protein 1) (Myxoid liposarcoma-associated protein 4)                                                                                                                                                                                                                                                                                             |
| <b>Observed Band</b>               | 80 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Calculated Molecular Weight</b> | 708aa,81 kDa; 527aa,60 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cell Pathway</b>                | Endoplasmic reticulum . Sarcoplasmic reticulum . Golgi apparatus .                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tissue Specificity</b>          | Expression localized to the epithelia of bile ducts and to the sarcoplasm of heart muscle and skeletal muscle. In the pancreas, localized to a subpopulation of Langerhans islet cells and in the salivary gland, expressed in acinar cells (at protein level) (PubMed:15063763). Expressed in adult heart, placenta, lung, liver, skeletal muscle and kidney (PubMed:15063763, PubMed:18487197). Detected in fetal heart, spleen, lung, liver skeletal muscle and kidney (PubMed:18487197). |
| <b>Function</b>                    | catalytic activity:Procollagen L-proline + 2-oxoglutarate + O(2) = procollagen trans-3-hydroxy-L-proline + succinate + CO(2).,cofactor:Ascorbate., cofactor:Iron.,function: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.,similarity:Belongs to the leprecan family., similarity:Contains 1 PKHD (prolyl/lysyl hydroxylase) domain.,similarity:Contains                |

4 TPR repeats.,tissue specificity:Expressed in heart, placenta, lung, liver, skeletal muscle and kidney. Expression localized to the epithelia of bile ducts and to the sacroplasm of heart muscle and skeletal muscle. In the pancreas, localized to a subpopulation of Langerhans islet cells and in the salivary gland, expressed in acinar cells.,

**Background**

This gene encodes a member of the prolyl 3-hydroxylase subfamily of 2-oxo-glutarate-dependent dioxygenases. These enzymes play a critical role in collagen chain assembly, stability and cross-linking by catalyzing post-translational 3-hydroxylation of proline residues. 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. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images