



P3H2 Monoclonal Antibody

Catalog No	YP-mAb-07851
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	LEPREL1 MLAT4 P3H2
Protein Name	Prolyl 3-hydroxylase 2 (EC 1.14.11.7) (Lepreca-like protein 1) (Myxoid liposarcoma-associated protein 4)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	P3H2 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	77kD
Cell Pathway	Endoplasmic reticulum . Sarcoplasmic reticulum . Golgi apparatus .
Tissue Specificity	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).
Function	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 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.,

**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