



# P4HA1 rabbit pAb

<b>Catalog No</b>	YP-Ab-12098
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	P4HA1 P4HA
<b>Protein Name</b>	P4HA1
<b>Immunogen</b>	Synthesized peptide derived from human P4HA1 AA range: 461-511
<b>Specificity</b>	This antibody detects endogenous levels of P4HA1 at Human/Mouse/Rat
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1: 500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	
<b>Cell Pathway</b>	Endoplasmic reticulum lumen.
<b>Tissue Specificity</b>	Expressed in the heart, liver, skeletal muscle, kidney, placenta, lung and pancreas.
<b>Function</b>	catalytic activity:Procollagen L-proline + 2-oxoglutarate + O(2) = procollagen trans-4-hydroxy-L-proline + succinate + CO(2).,cofactor:Ascorbate.,cofactor:Binds 1 Fe(2+) ion per subunit.,function:Catalyzes the post-translational formation of 4-hydroxyproline in -Xaa-Pro-Gly- sequences in collagens and other proteins.,similarity:Belongs to the P4HA family.,similarity:Contains 1 PKHD (prolyl/lysyl hydroxylase) domain.,similarity:Contains 1 TPR repeat.,subunit:Heterotetramer of two alpha-1 chains and two beta chains (the beta chain is the multi-functional PDI).,
<b>Background</b>	This gene encodes a component of prolyl 4-hydroxylase, a key enzyme in collagen synthesis composed of two identical alpha subunits and two beta subunits. The encoded protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active enzyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxyproline that is essential to the proper three-dimensional folding of newly synthesized procollagen chains. Alternatively spliced transcript variants encoding



different isoforms have been described. [provided by RefSeq, Jul 2008],

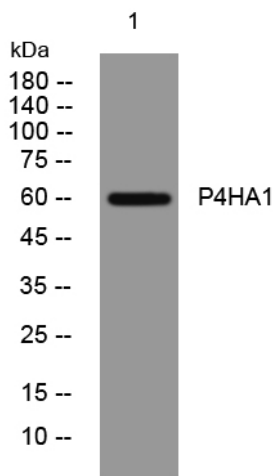
**matters needing attention**

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



Western blot analysis of lysates from VEC cells, primary antibody was diluted at 1:1000, 4° over night