Best Tools for immunology Research

P4HA3 rabbit pAb

Catalog No :	YT6617
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	P4HA3
Fields :	>>Arginine and proline metabolism;>>Metabolic pathways
Gene Name :	P4HA3 UNQ711/PRO1374
Protein Name :	P4HA3
Human Gene Id :	283208
Human Swiss Prot No :	Q7Z4N8
Mouse Swiss Prot No :	Q6W3F0
Rat Gene Id :	361612
Rat Swiss Prot No :	Q6W3E9
Immunogen :	Synthesized peptide derived from human P4HA3 AA range: 211-261
Specificity :	This antibody detects endogenous levels of P4HA3 at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1□500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 60kD

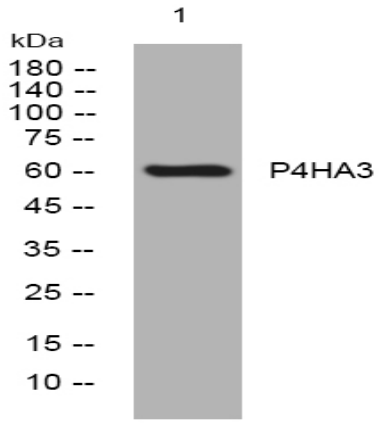
Background : This gene encodes a component of prolyl 4-hydroxylase, a key enzyme in collagen synthesis composed of two identical alpha subunits and two beta subunits. The encoded protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014],

Function : 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.,PTM:N-glycosylation plays no role in the catalytic activity.,similarity:Belongs to the P4HA family.,similarity:Contains 1 PKHD (prolyl/lysyl hydroxylase) domain.,similarity:Contains 1 TPR repeat.,subunit:Heterotetramer of two alpha-3 chains and two beta chains (the beta chain is the multi-functional PDI).,tissue specificity:Highly expressed in placenta, liver and fetal skin. Weakly expressed in fetal epiphyseal cartilage, fetal liver, fibroblast, lung and skeletal muscle. Expressed also in fibrous cap of carotid atherosclerotic lesions.,

Subcellular Location : Endoplasmic reticulum lumen .

Expression : Highly expressed in placenta, liver and fetal skin. Weakly expressed in fetal epiphyseal cartilage, fetal liver, fibroblast, lung and skeletal muscle. Expressed also in fibrous cap of carotid atherosclerotic lesions.

Products Images



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