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P4HA1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17086b

Product Information

Application	WB, E
Primary Accession	P13674
Other Accession	Q1RMU3, NP_001136067.1, NP_000908.2, NP_001017962.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37006
Calculated MW	61049
Antigen Region	414-442

Additional Information

Gene ID	5033
Other Names	Prolyl 4-hydroxylase subunit alpha-1, 4-PH alpha-1, Procollagen-proline, 2-oxoglutarate-4-dioxygenase subunit alpha-1, P4HA1, P4HA
Target/Specificity	This P4HA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 414-442 amino acids from the C-terminal region of human P4HA1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	P4HA1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	P4HA1
Synonyms	P4HA

Function	Catalyzes the post-translational formation of 4- hydroxyproline in -Xaa-Pro-Gly- sequences in collagens and other proteins.
Cellular Location	Endoplasmic reticulum lumen.
Tissue Location	Expressed in the heart, liver, skeletal muscle, kidney, placenta, lung and pancreas.

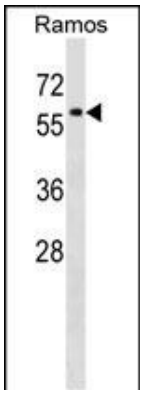
Background

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. Alternatively spliced transcript variants encoding different isoforms have been described.

References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Gorres, K.L., et al. PLoS ONE 4 (11), E7635 (2009) :
Koivunen, P., et al. J. Biol. Chem. 281(39):28712-28720(2006)
Fahling, M., et al. J. Biol. Chem. 281(36):26089-26101(2006)
Grimmer, C., et al. Am. J. Pathol. 169(2):491-502(2006)

Images



P4HA1 Antibody (C-term) (Cat. #AP17086b) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the P4HA1 antibody detected the P4HA1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.