

P4HA3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13685c

Product Information

Application	WB, E
Primary Accession	Q7Z4N8
Other Accession	NP_878907.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33578
Calculated MW	61126
Antigen Region	274-303

Additional Information

Gene ID	283208
Other Names	Prolyl 4-hydroxylase subunit alpha-3, 4-PH alpha-3, Procollagen-proline, 2-oxoglutarate-4-dioxygenase subunit alpha-3, P4HA3
Target/Specificity	This P4HA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 274-303 amino acids from the Central region of human P4HA3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	P4HA3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	P4HA3
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	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.

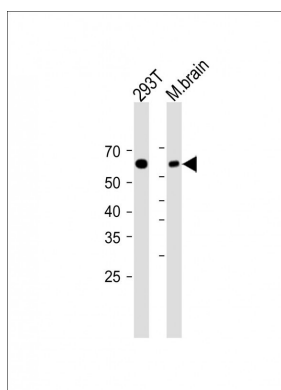
Background

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 have been observed, but their full-length nature has not been determined.

References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
 Koivunen, P., et al. J. Biol. Chem. 281(39):28712-28720(2006)
 Kukkola, L., et al. J. Biol. Chem. 278(48):47685-47693(2003)
 Van Den Diepstraten, C., et al. Circulation 108(5):508-511(2003)

Images



All lanes: Anti-P4HA3 Antibody (Center) at 1:2000 dilution
 Lane 1: 293T whole cell lysate Lane 2: Mouse brain lysate
 Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 61 kDa
 Blocking/Dilution buffer: 5% NFDm/TBST.

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