

P4HA1 rabbit monoclonal antibody

Catalog # H00005033-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human P4HA1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human P4HA1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human P4HA1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — P4HA1

Entrez GeneID	5033
GeneBank Accession#	P4HA1
Gene Name	P4HA1
Gene Alias	P4HA
Gene Description	prolyl 4-hydroxylase, alpha polypeptide I
Omim ID	176710
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	C-P4Halpha(I) collagen prolyl 4-hydroxylase alpha(I) procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I prolyl 4-hydroxylase, alpha I subunit

Pathway

- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)

Disease

- [Alzheimer Disease](#)
- [Genetic Predisposition to Disease](#)
- [Tobacco Use Disorder](#)