P4HA1 mouse monoclonal antibody (hybridoma)

Catalog # H00005033-M Size Up to 5 Clones

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant P4HA1.
Immunogen	P4HA1 (NP_001017962.1, 1 a.a. ~ 534 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MIWYILIIGILLPQSLAHPGFFTSIGQMTDLIHTEKDLVTSLKDYIKAEEDKLEQIKKWAEKLDRLTSTAT KDPEGFVGHPVNAFKLMKRLNTEWSELENLVLKDMSDGFISNLTIQRQYFPNDEDQVGAAKALL RLQDTYNLDTDTISKGNLPGVKHKSFLTAEDCFELGKVAYTEADYYHTELWMEQALRQLDEGEIST IDKVSVLDYLSYAVYQQGDLDKALLLTKKLLELDPEHQRANGNLKYFEYIMAKEKDVNKSASDDQ SDQKTTPKKKGVAVDYLPERQKYEMLCRGEGIKMTPRRQKKLFCRYHDGNRNPKFILAPAKQED EWDKPRIIRFHDIISDAEIEIVKDLAKPRLRRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMRI QDLTGLDVSTAEELQVANYGVGGQYEPHFDFARKDEPDAFKELGTGNRIATWLFYMSDVSAGGA TVFPEVGASVWPKKGTAVFWYNLFASGEGDYSTRHAACPVLVGNKWVSNKWLHERGQEFRRP CTLSELE
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactivity and specificity confirmed by ELISA and Western Blot.
Deliverables	Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.
Note	Customer should check the viability of the hybridomas within one month from the date of receipt. Fee -for-service of long term hybridoma storage can be performed upon customer's request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

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- ELISA

Gene Info — P4HA1

Entrez GeneID	5033
GeneBank Accession#	NM_001017962.1
Protein Accession#	NP_001017962.1
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 com posed of two identical alpha subunits and two beta subunits. The encoded protein is one of sever al different types of alpha subunits and provides the major part of the catalytic site of the active en zyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxypr oline that is essential to the proper three-dimensional folding of newly synthesized procollagen ch ains. Alternatively spliced transcript variants encoding different isoforms have been described. [pr ovided by RefSeq
Other Designations	C-P4Halpha(I)|collagen prolyl 4-hydroxylase alpha(I)|procollagen-proline, 2-oxoglutarate 4-dioxyge nase (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

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