

For Research Use Only

P4HA1 Monoclonal antibody

Catalog Number: 66101-1-Ig

Featured Product

3 Publications



Basic Information

Catalog Number: 66101-1-Ig	GenBank Accession Number: BC034998	Purification Method: Protein A purification
Size: 150ul , Concentration: 1200 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5033	CloneNo.: 1H10A6
Source: Mouse	Full Name: prolyl 4-hydroxylase, alpha polypeptide I	Recommended Dilutions: WB 1:500-1:2000 IHC 1:200-1:1000 IF 1:50-1:500
Isotype: IgG1	Calculated MW: 534 aa, 61 kDa	
Immunogen Catalog Number: AG17867	Observed MW: 61 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : PC-3 cells, HEK-293 cells, HeLa cells, HSC-T6 cells, ROS1728 cells, Neuro-2a cells, 4T1 cells, rat liver tissue, NIH/3T3 cells, MCF-7 cells

IHC : human breast cancer tissue, human testis tissue

IF : PC-3 cells,

Background Information

P4HA1(Prolyl 4-hydroxylase subunit alpha-1) is also named as P4HA and belongs to the P4HA family , which play a central role in collagen synthesis. P4HA1 catalyzes the post-translational formation of 4-hydroxyproline in -Xaa-Pro-Gly- sequences in collagens and other proteins. The gene encodes a polypeptide of 517 amino acid residues and a signal peptide of 17 amino acids and the full length protein has two glycosylation sites (uniprot). It can exist as a heteromer, dimer or tetramer (refer to: GENATLAS). P4HA1 has 3 isoforms produced by alternative splicing with the molecular weight of 61 kDa, 61 kDa and 59 kDa. This antibody is specific to P4HA1.

Notable Publications

Author	Pubmed ID	Journal	Application
Johanna Eriksson	32053263	Mol Oncol	WB,IHC
Chenghao Zhanghuang	35558559	Front Mol Biosci	WB
Xiangming Han	35494018	Front Oncol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

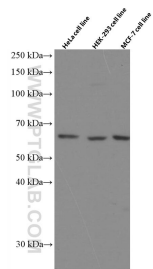
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

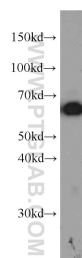
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

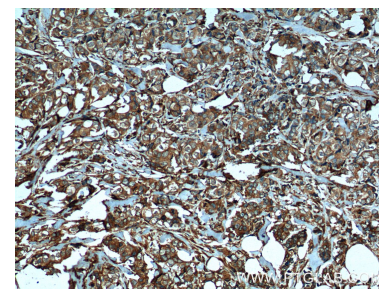
Selected Validation Data



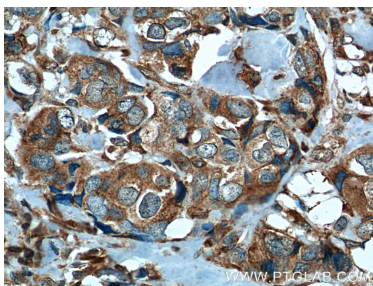
Various lysates were subjected to SDS PAGE followed by western blot with 66101-1-Ig (P4HA1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



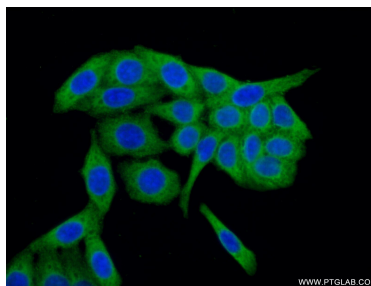
PC-3 cells were subjected to SDS PAGE followed by western blot with 66101-1-Ig (P4HA1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66101-1-Ig (P4HA1 Antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66101-1-Ig (P4HA1 Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using 66101-1-Ig(P4HA1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).