

For Research Use Only

# P4HA1 Monoclonal antibody

Catalog Number: 66101-1-Ig

Featured Product

3 Publications



## Basic Information

Catalog Number:

66101-1-Ig

Size:

1200 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG17867

GenBank Accession Number:

BC034998

GeneID (NCBI):

5033

UNIPROT ID:

P13674

Full Name:

prolyl 4-hydroxylase, alpha polypeptide I

Calculated MW:

534 aa, 61 kDa

Observed MW:

61 kDa

Purification Method:

Protein A purification

CloneNo.:

1H10A6

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:200-1:1000

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

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

## 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

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

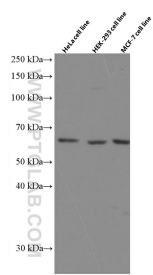
T: 4006900926

E: Proteintech-CN@ptglab.com

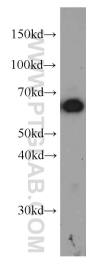
W: ptgcn.com

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

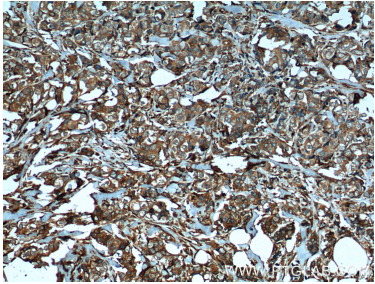
## Selected Validation Data



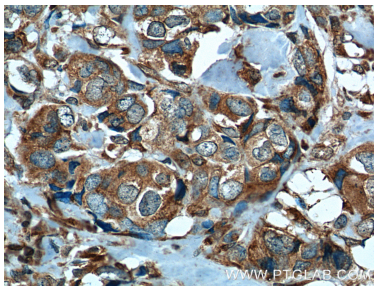
Various lysates were subjected to SDS PAGE followed by western blot with 66101-1-Ig (P4HA1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).