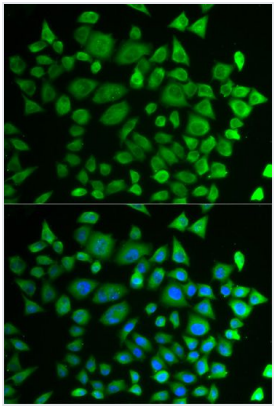
P4HTM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	P4HTM, Polyclonal Antibody
Full Product Name	P4HTM Polyclonal Antibody
Product Gene Name	anti-P4HTM antibody
Product Synonym Names	EGLN4; HIFPH4; P4H-TM; PH-4; PH4; PHD4
Immunogen Sequence	RQRVLRLTRL SPEIVELSEP LQVVRYGEGG HYHAHVDSGP VYPETICSHT KLVANESVPF ETSCRQVSPN WGLPSILRPG TPMTQAQPCT VGVPLGMGPG DHWVIPVSPW EHPQLGTCSV PPLPYSYMTV LFYLNNVTGG GETVFPVADN RTYDEMSLIQ DDVDLRDTRR HCDKGNLRVK PQQGTAVFWY NYLPDGQGWV GDVDDYSLHG GCLVTRGTKW IANNWINVDP SRARQALFQQ EMARLAREGG TDSQP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	47kDa/56kDa/63kDa
OMIM	AY198406 mRNA
3D Structure	ModBase 3D Structure for Q9NXG6
Immunogen	Recombinant protein of human P4HTM
Immunogen Species	Human
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Cellular Location	Endoplasmic reticulum membrane, Single-pass type II membrane protein
Product Categories/Family for anti-P4HTM antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-P4HTM antibody	Immunofluorescence (IF)
Application Notes for anti-P4HTM antibody	IF: 1:50 - 1:200
Related Product Information for anti-P4HTM antibody	The product of this gene belongs to the family of prolyl 4-hydroxylases. This protein is a prolyl hydroxylase that may be involved in the degradation of hypoxia-inducible transcription factors under normoxia. It plays a role in adaptation to hypoxia and may be related to cellular oxygen sensing. Alternatively spliced variants encoding different isoforms have been identified.
Other Notes	Small volumes of anti-P4HTM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for P4HTM purchase	MBS9133628 is an antibody targeting P4HTM. Also known as P4HTM Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Immunofluorescence (IF) of anti-P4HTM antibody
Immunofluorescence analysis of HeLa cells using P4HTM antibody. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for P4HTM. It may not necessarily be applicable to this product.

NCBI GI #	64085083
NCBI GeneID	54681
NCBI Accession #	NP_808807.2
UniProt Primary Accession #	Q9NXG6
UniProt Secondary Accession #	Q6PAG6; Q8TCJ9; Q8WV55; Q96F22; Q9BW77
UniProt Related Accession #	Q9NXG6
GenBank Nucleotide #	NM_177938.2
NCBI Official Full Name	transmembrane prolyl 4-hydroxylase isoform c
NCBI Official Synonym Full Names	prolyl 4-hydroxylase, transmembrane
NCBI Official Symbol	P4HTM
NCBI Official Synonym Symbols	PH4; PH-4; PHD4; EGLN4; HIFPH4; P4H-TM
UniProt Protein Name	Transmembrane prolyl 4-hydroxylase
UniProt Synonym Protein Names	Hypoxia-inducible factor prolyl hydroxylase 4; HIF-PH4; HIF-prolyl hydroxylase 4; HPH-4
Protein Family	Transmembrane prolyl 4-hydroxylase
UniProt Gene Name	P4HTM
UniProt Synonym Gene Names	PH4; P4H-TM; HIF-PH4; HIF-prolyl hydroxylase 4; HPH-4
NCBI Protein Information	transmembrane prolyl 4-hydroxylase
UniProt Comments for P4HTM	Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF1A at 'Pro-402' and 'Pro-564'. May function as a cellular oxygen sensor and, under normoxic conditions, may target HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex.
Research Articles on P4HTM	**1.** The results suggest that SESN2 increases degradation of HIF-1A via AMPK-PHD regulation that contributes to inhibition of in vitro and in vivo tumorigenesis.

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