

Recombinant Human P4HTM 293 Cell Lysate

Cat. No. P4HTM-3479HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) (P4HTM), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	P4HTM prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum) [Homo sapiens]
Official Symbol	P4HTM
Synonyms	P4HTM; prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum); transmembrane prolyl 4-hydroxylase; EGLN4; FLJ20262; HIFPH4; hypoxia inducible factor prolyl 4 hydroxylase; P4H TM; PH 4; PH4; PHD4; Prolyl hydroxylase domain containing 4; HPH-4; HIF-PH4; proline 4-hydroxylase; HIF-prolyl hydroxylase 4; P4H with transmembrane domain; Prolyl hydroxylase domain-containing 4; hypoxia-inducible factor prolyl 4-hydroxylase; hypoxia-inducible factor prolyl hydroxylase 4; PH-4; P4H-TM;
Gene ID	54681
mRNA Refseq	NM_177938
Protein Refseq	NP_808807
MIM	614584
UniProt ID	Q9NXG6
Chromosome Location	3p21.31
Function	L-ascorbic acid binding; calcium ion binding; iron ion binding; oxidoreductase activity,


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acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen;

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