

Recombinant Human P4HA1 293 Cell Lysate

Cat. No. P4HA1-3482HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for prolyl 4-hydroxylase, alpha polypeptide I (P4HA1), 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.

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

GENE INFORMATION
Gene Name

P4HA1 prolyl 4-hydroxylase, alpha polypeptide I [Homo sapiens]

Official Symbol

P4HA1

Synonyms

P4HA1; prolyl 4-hydroxylase, alpha polypeptide I; P4HA, procollagen proline, 2 oxoglutarate 4 dioxygenase (proline 4 hydroxylase), alpha polypeptide I; prolyl 4-hydroxylase subunit alpha-1; C P4Halpha(I); collagen prolyl 4 hydroxylase alpha(I); C-P4Halpha(I); collagen prolyl 4-hydroxylase alpha(I); procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-1; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I; P4HA;

Gene ID

5033

mRNA Refseq

NM_000917

Protein Refseq

NP_000908

MIM

176710

UniProt ID

P13674

Chromosome Location

10q21.3-q23.1

Pathway

Arginine and proline metabolism, organism-specific biosystem; Arginine and proline

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metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;

Function

L-ascorbic acid binding; binding; iron ion binding; metal ion binding; oxidoreductase activity, 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; procollagen-proline 4-dioxygenase activity;

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