

## Recombinant Human P4HA3 293 Cell Lysate

**Cat. No.** P4HA3-3480HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for prolyl 4-hydroxylase, alpha polypeptide III (P4HA3) 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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

<b>Gene Name</b>	P4HA3 prolyl 4-hydroxylase, alpha polypeptide III [ Homo sapiens ]
<b>Official Symbol</b>	P4HA3
<b>Synonyms</b>	P4HA3; prolyl 4-hydroxylase, alpha polypeptide III; procollagen proline, 2 oxoglutarate 4 dioxygenase (proline 4 hydroxylase), alpha polypeptide III; prolyl 4-hydroxylase subunit alpha-3; C P4Halpha(III); collagen prolyl 4 hydroxylase alpha(III); 4-PH alpha-3; C-P4H alpha III; collagen prolyl 4-hydroxylase alpha(III); procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-3; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide III;
<b>Gene ID</b>	283208
<b>mRNA Refseq</b>	NM_182904
<b>Protein Refseq</b>	NP_878907
<b>MIM</b>	608987
<b>UniProt ID</b>	Q7Z4N8
<b>Chromosome Location</b>	11q13
<b>Pathway</b>	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;

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**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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