

Recombinant Human PDP1 293 Cell Lysate

Cat. No. PDP1-3324HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for pyruvate dehydrogenase phosphatase catalytic subunit 1 (PDP1), nuclear gene encoding mitochondrial protein, transcript variant 5 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

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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 [PDP1 pyruvate dehydrogenase phosphatase catalytic subunit 1 \[Homo sapiens \]](#)

Official Symbol [PDP1](#)

Synonyms [PDP1](#); [pyruvate dehydrogenase phosphatase catalytic subunit 1](#); [PPM2C](#), protein phosphatase 2C, magnesium dependent, catalytic subunit; [\[Pyruvate dehydrogenase \[acetyl-transferring\]\]-phosphatase 1, mitochondrial](#); [PDH](#); [PDP](#); [PDP 1](#); [PDPC 1](#); [pyruvate dehydrogenase phosphatase catalytic subunit 1](#); [pyruvate dehydrogenase \(Lipoamide\) phosphatase-phosphatase](#); [protein phosphatase 2C, magnesium-dependent, catalytic subunit](#); [PDPC](#); [PPM2C](#); [FLJ32517](#); [FLJ56179](#); [MGC119646](#);

Gene ID [54704](#)

mRNA Refseq [NM_001161778](#)

Protein Refseq [NP_001155250](#)

MIM [605993](#)

UniProt ID [Q9P0J1](#)

Chromosome Location [8q22.1](#)

Pathway [Metabolism, organism-specific biosystem](#); [Pyruvate metabolism, organism-specific biosystem](#); [Pyruvate metabolism and Citric Acid \(TCA\) cycle, organism-specific](#)

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biosystem; Regulation of pyruvate dehydrogenase (PDH) complex, organism-specific biosystem; TCA Cycle, organism-specific biosystem; The citric acid (TCA) cycle and respiratory electron transport, organism-specific biosystem;

Function

[pyruvate dehydrogenase (lipoamide)] phosphatase activity; calcium ion binding; hydrolase activity; magnesium-dependent protein serine/threonine phosphatase activity; protein complex binding; protein serine/threonine phosphatase activity;

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