

Recombinant Human PDP1 293 Cell Lysate

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

SPECIFICATION

Product Overview

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.

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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

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

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biosystem; Pyruvate metabolism and Citric Acid (TCA) cycle, organism-specific 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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