

Recombinant Human PDP2 293 Cell Lysate

Cat. No. PDP2-3323HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for pyruvate dehydrogenase phosphatase catalytic subunit 2 (PDP2) 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 PDP2 pyruvate dehydrogenase phosphatase catalytic subunit 2 [Homo sapiens]

Official Symbol PDP2

Synonyms PDP2; pyruvate dehydrogenase phosphatase catalytic subunit 2; [Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 2, mitochondrial; KIAA1348; PPM2C2; protein phosphatase 2C; magnesium dependent; catalytic subunit 2; PDPC 2; pyruvate dehydrogenase phosphatase isoenzyme 2; pyruvate dehydrogenase phosphatase catalytic subunit 2; pyruvate dehydrogenase phosphatase, catalytic subunit 2; protein phosphatase 2C, magnesium-dependent, catalytic subunit 2;

Gene ID 57546

mRNA Refseq NM_020786

Protein Refseq NP_065837

UniProt ID Q9P2J9

Chromosome Location 16q22.1

Pathway Metabolism, organism-specific biosystem; Pyruvate metabolism, organism-specific biosystem; Pyruvate metabolism and Citric Acid (TCA) cycle, organism-specific biosystem; Regulation of pyruvate dehydrogenase (PDH) complex, organism-specific

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biosystem; TCA Cycle, organism-specific biosystem; The citric acid (TCA) cycle and respiratory electron transport, organism-specific biosystem;

Function

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

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