

Recombinant Human PDHA2 293 Cell Lysate

Cat. No. PDHA2-3333HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for pyruvate dehydrogenase (lipoamide) alpha 2 (PDHA2) 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 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

Gene Name PDHA2 pyruvate dehydrogenase (lipoamide) alpha 2 [Homo sapiens]

Official Symbol PDHA2

Synonyms PDHA2; pyruvate dehydrogenase (lipoamide) alpha 2; PDHAL; pyruvate dehydrogenase E1 component subunit alpha, testis-specific form, mitochondrial; PDHE1-A type II; pyruvate dehydrogenase, E1-alpha polypeptide, testis specific; MGC149517; MGC149518;

Gene ID 5161

mRNA Refseq NM_005390

Protein Refseq NP_005381

MIM 179061

UniProt ID P29803

Chromosome Location 4q22-q23

Pathway Acetylcholine Synthesis, organism-specific biosystem; Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Glycolysis / Gluconeogenesis, organism-specific biosystem; Glycolysis / Gluconeogenesis, conserved biosystem;

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Function

oxidoreductase activity; pyruvate dehydrogenase (acetyl-transferring) activity;

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