

Recombinant Human DLD 293 Cell Lysate

Cat. No. DLD-6912HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for dihydrolipoamide dehydrogenase (DLD) 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 DLD dihydrolipoamide dehydrogenase [Homo sapiens]

Official Symbol DLD

Synonyms DLD; dihydrolipoamide dehydrogenase; dihydrolipoamide dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2 oxo glutarate complex, branched chain keto acid dehydrogenase complex) , GCSL, LAD; dihydrolipoyl dehydrogenase, mitochondrial; DLDH; E3 component of pyruvate dehydrogenase complex; 2 oxo glutarate complex; branched chain keto acid dehydrogenase complex; diaphorase; lipoamide reductase; lipoyl dehydrogenase; lipoamide dehydrogenase; glycine cleavage system L protein; glycine cleavage system protein L; E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex; E3; LAD; GCSL; PHE3;

Gene ID 1738

mRNA Refseq NM_000108

Protein Refseq NP_000099

MIM 238331

UniProt ID P09622

Chromosome 7q31-q32

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Location	
Pathway	2-ketoglutarate dehydrogenase complex, organism-specific biosystem; 2-ketoglutarate dehydrogenase complex, conserved biosystem; 2-oxobutanoate degradation I, organism-specific biosystem; 2-oxobutanoate degradation I, conserved biosystem; Branched-chain amino acid catabolism, organism-specific biosystem; Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem;
Function	NAD binding; dihydrolipoyl dehydrogenase activity; flavin adenine dinucleotide binding; lipoamide binding; oxidoreductase activity;

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