

Human DLD Knockdown Cell Lysate

Cat. No. DLD-138HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated DLD Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. In homodimeric form, the encoded protein functions as a dehydrogenase and is found in several multi-enzyme complexes that regulate energy metabolism. However, as a monomer, this protein can function as a protease. Mutations in this gene have been identified in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency. Alternative splicing results in multiple transcript variants.
Form	Cell-Tissue Lysis buffer
Molecular Mass	54 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.

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Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg DLD KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Citrate cycle (TCA cycle), Glycine, Glycolysis / Gluconeogenesis, leucine and isoleucine degradation, Metabolic pathways, Pyruvate metabolism, serine and threonine metabolism, Valine
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	DLD dihydrolipoamide dehydrogenase [Homo sapiens (human)]
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

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mRNA Refseq	NM_000108
Protein Refseq	NP_000099
MIM	238331
UniProt ID	P09622

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