

Human MDH2 Knockdown Cell Lysate

Cat. No. MDH2-240HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated MDH2 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. The protein encoded by this gene is localized to the mitochondria and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between cytosol and mitochondria. Several transcript variants encoding different isoforms have been found for this gene.
Form	Cell-Tissue Lysis buffer
Molecular Mass	36 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.
Concentration	Lot-specific

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Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg MDH2 KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways, Pyruvate metabolism
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	MDH2 malate dehydrogenase 2, NAD (mitochondrial) [Homo sapiens (human)]
Official Symbol	MDH2
Synonyms	MDH2; malate dehydrogenase 2, NAD (mitochondrial); malate dehydrogenase, mitochondrial; MDH; MOR1; M-MDH; MGC:3559;
Gene ID	4191
mRNA Refseq	NM_005918
Protein Refseq	NP_005909
MIM	154100
UniProt ID	P40926

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