

# Human MDH2 Knockdown Cell Lysate

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

## SPECIFICATION

<b>Product Overview</b>	WB-validated MDH2 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	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.
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	36 kDa
<b>Notes</b>	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.
<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific

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

## GENE INFORMATION

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

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