Human ACO2 Knockdown Cell Lysate

Cat. No. ACO2-320HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ACO2 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15(PRSS15), also known as Lon protease, after oxidative modification.
Form	Cell-Tissue Lysis buffer
Molecular Mass	85 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 ACO2 KD HeLa cell lysate
Protein Pathways	Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ACO2 aconitase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	ACO2
Synonyms	ACO2; aconitase 2, mitochondrial; aconitate hydratase, mitochondrial; ACONM; citrate hydro-lyase; ICRD; MGC20605; MGC33908;
Gene ID	50
mRNA Refseq	NM_001098
Protein Refseq	NP_001089
MIM	100850
UniProt ID	Q99798

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