

Human ACLY Knockdown Cell Lysate

Cat. No. ACLY-022HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ACLY Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer (relative molecular weight approximately 440,000) of apparently identical subunits. It catalyzes the formation of acetyl-CoA and oxaloacetate from citrate and CoA with a concomitant hydrolysis of ATP to ADP and phosphate. The product, acetyl-CoA, serves several important biosynthetic pathways, including lipogenesis and cholesterologenesis. In nervous tissue, ATP citrate-lyase may be involved in the biosynthesis of acetylcholine. Multiple transcript variants encoding distinct isoforms have been identified for this gene.
Form	Cell-Tissue Lysis buffer
Molecular Mass	121 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 ACLY KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Citrate cycle (TCA cycle), Metabolic pathways
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ACLY ATP citrate lyase [Homo sapiens (human)]
Official Symbol	ACLY
Synonyms	ACLY; ATP citrate lyase; ATP-citrate synthase; ACL; ATP citrate synthase; ATPCL; CLATP; citrate cleavage enzyme; ATP-citrate (pro-S-)-lyase;
Gene ID	47
mRNA Refseq	NM_001096
Protein Refseq	NP_001087
MIM	108728
UniProt ID	P53396

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