

Human ACAT1 Knockdown Cell Lysate

Cat. No. ACAT1-019HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ACAT1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. Defects in this gene are associated with 3-ketothiolase deficiency, an inborn error of isoleucine catabolism characterized by urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, tiglylglycine, and butanone.
Form	Cell-Tissue Lysis buffer
Molecular Mass	45 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 ACAT1 KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Butanoate metabolism, Fatty acid metabolism, leucine and isoleucine degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Tryptophan metabolism, Valine
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ACAT1 acetyl-CoA acetyltransferase 1 [Homo sapiens (human)]
Official Symbol	ACAT1
Synonyms	ACAT1; acetyl-CoA acetyltransferase 1; ACAT, acetyl Coenzyme A acetyltransferase 1; acetyl-CoA acetyltransferase, mitochondrial; acetoacetyl Coenzyme A thiolase; THIL; acetoacetyl-CoA thiolase; acetyl-Coenzyme A acetyltransferase 1; mitochondrial acetoacetyl-CoA thiolase; T2; MAT; ACAT;
Gene ID	38
mRNA Refseq	NM_000019
Protein Refseq	NP_000010
MIM	607809

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UniProt ID

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