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Product datasheet for LY300019

ACAT1 Human Knockdown Lysate

Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated ACAT1 Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	ACAT1; Acetyl-CoA Acetyltransferase 1; THIL; ACAT; Acetyl-CoA Acetyltransferase, Mitochondrial; Acetyl-Coenzyme A Acetyltransferase 1; Acetoacetyl Coenzyme A Thiolase; Acetoacetyl-CoA Thiolase; EC 2.3.1.9; MAT; T2; Mitochondrial Acetoacetyl-CoA Thiolase; Testicular Tissue Protein Li 198; EC 2.3.1
Predicted MW:	45 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug ACAT1 KD HeLa cell lysate
Storage:	Store at -20 ℃ for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	38
UniProt ID:	P24752
Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Fatty acid metabolism, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Tryptophan metabolism, Valine, leucine and isoleucine degradation

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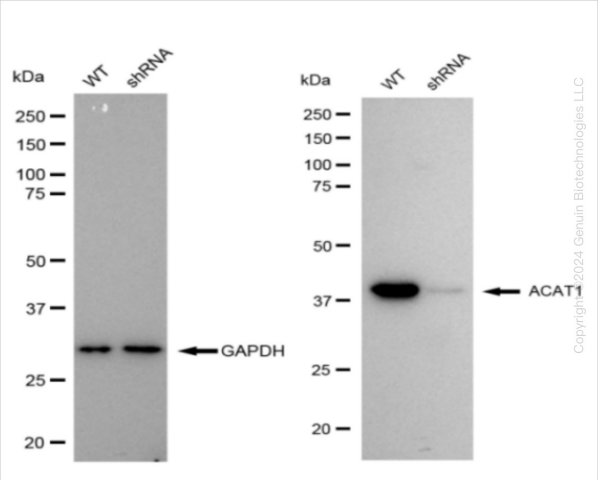
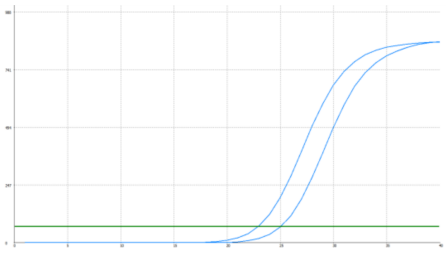
Product images:



Western blotting analysis. ACAT1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. GAPDH served as a loading control. The blots were incubated with primary antibodies (Cat#69117, 1:5,000) against ACAT1 and GAPDH, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).



Genotype	Ct Value
Wild-Type	22.68
Knock-Down	24.81
ΔCt (Ct_{KD}-Ct_{WT})	2.13
% mRNA Reduction	⬇ 77%

RT-qPCR analysis. HeLa cells were infected with ACAT1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.