

# Product datasheet for LY300020

## ACAT2 Human Knockdown Lysate

### **Product data:**

#### OriGene Technologies, Inc.

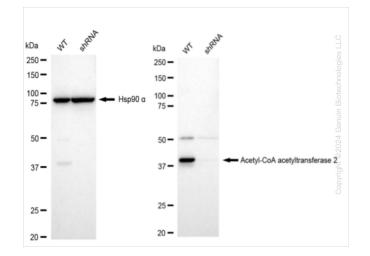
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Product Type:	Knockdown Lysates	
Description:	WB-validated ACAT2 Knockdown HeLa Cell Lysate	
Species:	Human	
Expression Host:	HeLa	
Tag:	Tag Free	
Synonyms:	ACAT2; Acetyl-CoA Acetyltransferase 2; Acetyl-CoA Acetyltransferase, Cytosolic; Acetyl-CoA Transferase-Like Protein; Cytosolic Acetoacetyl-CoA Thiolase; Acetoacetyl Coenzyme A Thiolase; EC 2.3.1.9; Acetyl-Coenzyme A Acetyltransferase 2 (Acetoacetyl Coenzyme A Thiolase); Acetyl-Coenzyme A Acetyltransferase 2; EC 2.3.1; ACTL	
Predicted MW:	41 kDa	
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug ACAT2 KD HeLa cell lysate	
Storage:	Store at -20 °C for two years.	
Concentration:	Lot-specific	
Buffer:	IntactProtein Cell-Tissue Lysis buffer	
Locus ID:	39	
UniProt ID:	<u>Q9BWD1</u>	
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	

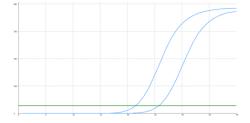


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#### **Product images:**



Western blotting analysis. ACAT2 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90  $\alpha$  served as a loading control. The blots were incubated with primary antibodies against ACAT2 and Hsp90  $\alpha$ , respectively, followed by incubating with HRPconjugated goat anti-rabbit secondary antibody. Images were developed using FeQ<sup>TM</sup> ECL Substrate Kit.



	0
Genotype	Ct Value
Wild-Type	<b>21.43</b>
Knock-Down	<b>25.63</b>
ΔCt (Ct <sub>KD</sub> -Ct <sub>WT</sub> )	<b>4.2</b>
% mRNA Reduction	<b>95%</b>

RT-qPCR analysis. HeLa cells were infected with
ACAT2-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%.

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