

Product datasheet for LY300016

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

ACAA2 Human Knockdown Lysate

Product data:

Product Type: Knockdown Lysates

Description: WB-validated ACAA2 Knockdown HeLa Cell Lysate

Species: Human Expression Host: HeLa

Tag: Tag Free

Synonyms: ACAA2; Acetyl-CoA Acyltransferase 2; DSAEC 2; Mitochondrial 3-Oxoacyl-Coenzyme A Thiolase

2; 3-Ketoacyl-CoA Thiolase, Mitochondrial; Mitochondrial 3-Oxoacyl-CoA Thiolase; Acetyl-

Coenzyme A Acyltransferase 2; Acyl-CoA Hydrolase, Mitochondrial; Acetyl-CoA

Acetyltransferase; EC 2.3.1.16; T1; Acetyl-CoA Acyltransferase; Beta Ketothiolase; Beta-

Ketothiolase; EC 2.3.1.9; EC 3.1.2.-; EC 3.1.2.1; EC 3.1.2.2; EC 2.3.1

Predicted MW: 42 kDa

Components: 1 vial of 100 ug WT HeLa cell lysate

1 vial of 100 ug ACAA2 KD HeLa cell lysate

Storage: Store at -20 °C for two years.

Concentration: Lot-specific

Buffer: IntactProtein Cell-Tissue Lysis buffer

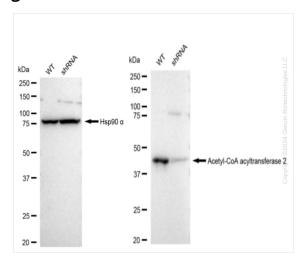
Locus ID: 10449 **UniProt ID:** P42765

Protein Pathways: Fatty acid elongation in mitochondria, Fatty acid metabolism, Metabolic pathways, Valine,

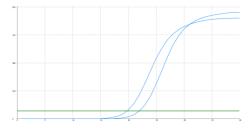
leucine and isoleucine degradation



Product images:



Western blotting analysis. ACAA2 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies (Cat#61563, 1:5,000) against ACAA2 and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ^M ECL Substrate Kit (Cat#226).



Genotype	Ct Value
Wild-Type	19.59
Knock-Down	21.94
ΔCt (Ct _{KD} -Ct _{WT})	2.35
% mRNA Reduction	↓ 80 %

RT-qPCR analysis. HeLa cells were infected with ACAA2-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2 Δ Ct) x 100%.