Product Name: **KD-Validated Acetyl-CoA Acyltransfe Rase 2 Recombinant Rabbit Monoclonal Antibody**
Catalog #: **KVAb01434**
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 41.9kDa

Antigen Information

Gene Name	ACAA2
Alternative Names	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
Gene ID	10449.0
SwissProt ID	P42765
Immunogen	A synthesized peptide derived from human ACAA2

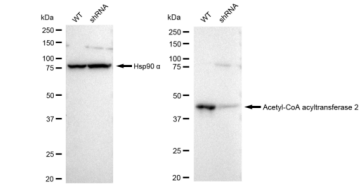
Background

The encoded protein catalyzes the last step of the mitochondrial fatty acid beta-oxidation spiral. Unlike most mitochondrial matrix proteins, it contains a non-cleavable amino-terminal targeting signal. [provided by RefSeq, Jul 2008]

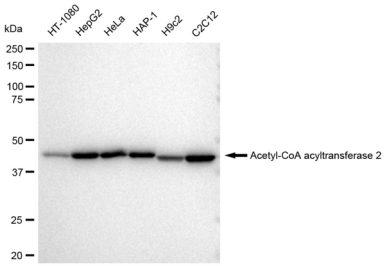
Research Area

Tags & Cell Markers,Cardiovascular,Signal Transduction,Metabolism

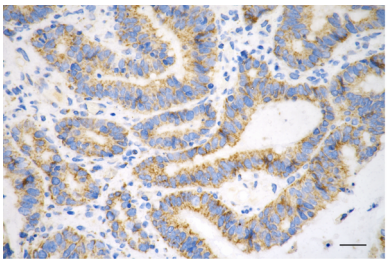
Image Data



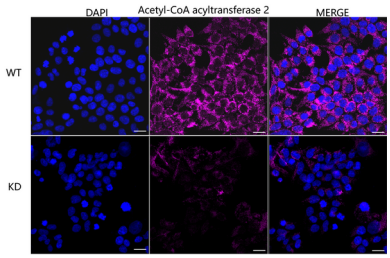
Western blotting analysis using Acetyl-CoA acyltransferase 2 antibody (KVAb01434). Acetyl-CoA acyltransferase 2 expression in wild type (WT) and Acetyl-CoA acyltransferase 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Acetyl-CoA acyltransferase 2 antibody (KVAb01434, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



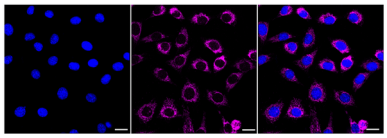
Western blotting analysis using Acetyl-CoA acyltransferase 2 antibody (KVAb01434). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Acetyl-CoA acyltransferase 2 antibody (KVAb01434, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



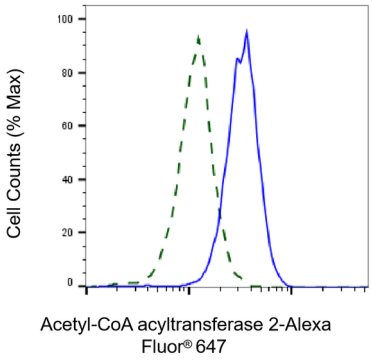
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using acetyl-CoA acyltransferase 2 antibody (KVAb01434, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



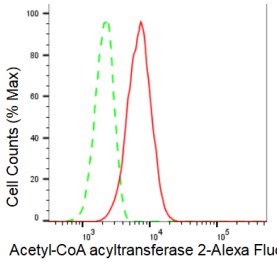
Immunocytochemical staining of HeLa cells using Acetyl-CoA acyltransferase 2 antibody (KVAb01434, 1:1,000), Top panel: wild-type (WT); Bottom panal: Acetyl-CoA acyltransferase 2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Acetyl-CoA acyltransferase 2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of C2C12 cells with Acetyl-CoA acyltransferase 2 antibody (KVAb01434, 1:1,000). Nuclei were stained blue with DAPI; Acetyl-CoA acyltransferase 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Validation of Acetyl-CoA acyltransferase 2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Acetyl-CoA acyltransferase 2 antibody (KVAb01434, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Acetyl-CoA acyltransferase 2 expression in C2C12 cells using Acetyl-CoA acyltransferase 2 antibody (KVAb01434, 1:2,000). Green, isotype control; red, Acetyl-CoA acyltransferase 2.