
Product Name: KD-Validated Acetyl-CoA Acetyltransferase 2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01181**

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: 41.4kDa

Antigen Information

Gene Name	ACAT2
Alternative Names	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
Gene ID	39.0
SwissProt ID	Q9BWD1
Immunogen	A synthesized peptide derived from human ACAT2

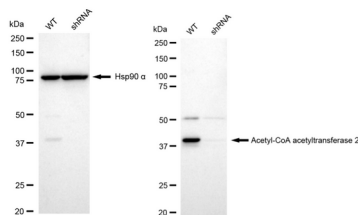
Background

The product of this gene is an enzyme involved in lipid metabolism, and it encodes cytosolic acetoacetyl-CoA thiolase. This gene shows complementary overlapping with the 3-prime region of the TCP1 gene in both mouse and human. These genes are encoded on opposite strands of DNA, as well as in opposite transcriptional orientation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]

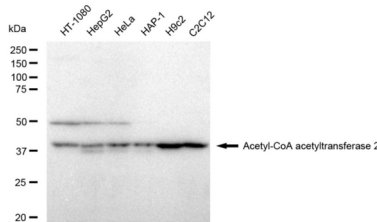
Research Area

Cardiovascular,Signal Transduction,Cardiovascular,Metabolism

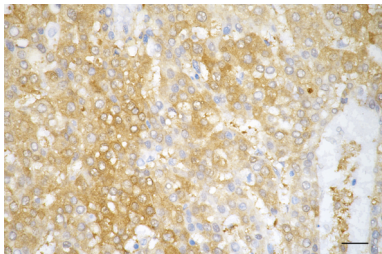
Image Data



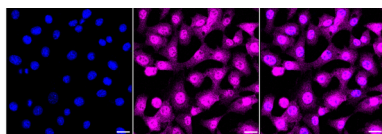
Western blotting analysis using acetyl-coa acetyltransferase 2 antibody (KVAb01181). Acetyl-CoA acetyltransferase 2 expression in wild type (WT) and acetyl-coa acetyltransferase 2 (ACAT2) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with acetyl-coa acetyltransferase 2 antibody (KVAb01181, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



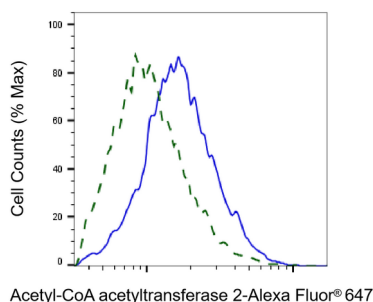
Western blotting analysis using acetyl-coa acetyltransferase 2 antibody (KVAb01181). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with acetyl-coa acetyltransferase 2 antibody (KVAb01181, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



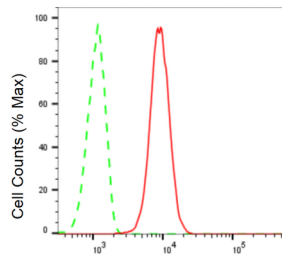
Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using acetyl-CoA acetyltransferase 2 antibody (KVAb01181, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HepG2 cells with Acetyl-CoA acetyltransferase 2 antibody (KVAb01181, 1:1,000). Nuclei were stained blue with DAPI; Acetyl-CoA acetyltransferase 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of Acetyl-CoA acetyltransferase 2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Acetyl-CoA acetyltransferase 2 antibody (KVAb01181, 1:2,000) and analyzed using CytoFLEX.



Acetyl-CoA acetyltransferase 2-Alexa Fluor® 647

Flow cytometric analysis of Acetyl-CoA acetyltransferase 2 expression in C2C12 cells using Acetyl-CoA acetyltransferase 2 antibody (KVA01181, 1:2,000). Green, isotype control; red, Acetyl-CoA acetyltransferase 2.