

Product Name: KO-Validated ACADM Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00154

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: 46.6kDa

Antigen Information

Gene Name	ACADM ACADM; Acyl-CoA Dehydrogenase Medium Chain; MCADH; MCAD; ACAD1; Medium-Chain Specific Acyl-CoA Dehydrogenase, Mitochondrial; Acyl-Coenzyme A Dehydrogenase, C-4 To
Alternative Names	C-12 Straight Chain; Medium-Chain Acyl-CoA Dehydrogenase; Acyl-CoA Dehydrogenase, C-4 To C-12 Straight Chain; Medium Chain Acyl-CoA Dehydrogenase; Testicular Tissue Protein Li 7; EC 1.3.99.3; EC 1.3.8.7; EC 1.3.99
Gene ID	34.0
SwissProt ID	P11310
Immunogen	A synthesized peptide derived from human ACADM

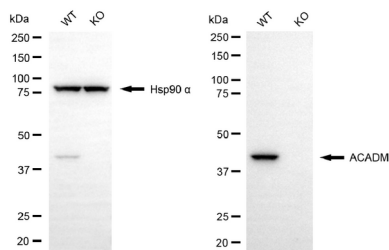
Background

This gene encodes the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Defects in this gene cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

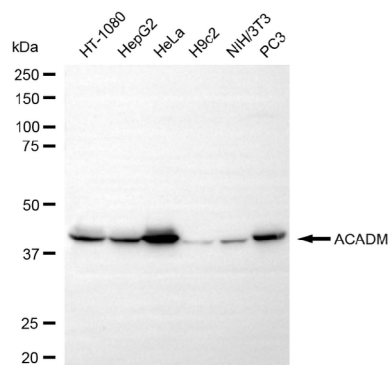
Research Area

Signal Transduction, Cardiovascular, Cancer, Metabolism

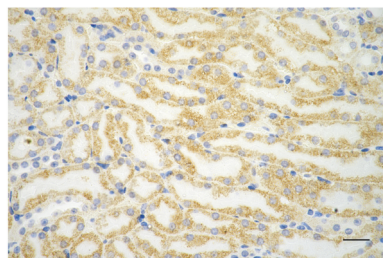
Image Data



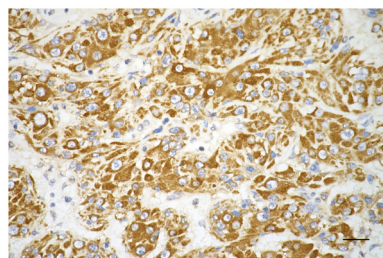
Western blotting analysis using ACADM antibody (KVA00154). ACADM expression in wild type (WT) and ACADM knockout (KO) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ACADM antibody (KVA00154, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



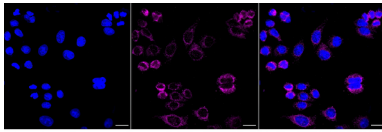
Western blotting analysis using ACADM antibody (KVA00154). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ACADM antibody (KVA00154, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



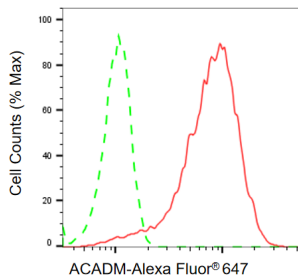
Immunohistochemistry was performed on paraffin-embedded mouse kidney using ACADM antibody (KVA00154, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using ACADM antibody (KVA00154, 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 ACADM alpha (Ser51) antibody (KVAb00154, 1:1,000). Nuclei were stained blue with DAPI; ACADM 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 μ m.



Flow cytometric analysis of ACADM expression in HepG2 cells using ACADM antibody (KVAb00154, 1:2,000). Green, isotype control; red, ACADM.