

Product Name: KD-Validated ACADVL Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01543

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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
Molecular Weight	Calculated MW: 70.4kDa

Antigen Information

Gene Name	ACADVL
Alternative Names	ACADVL; Acyl-CoA Dehydrogenase Very Long Chain; VLCAD; LCACD; ACAD6; Very Long-Chain Specific Acyl-CoA Dehydrogenase, Mitochondrial; Acyl-Coenzyme A Dehydrogenase, Very Long Chain; EC 1.3.8.9; EC 1.3.99
Gene ID	37.0
SwissProt ID	P49748
Immunogen	A synthesized peptide derived from human ACADVL/VLCAD

Background

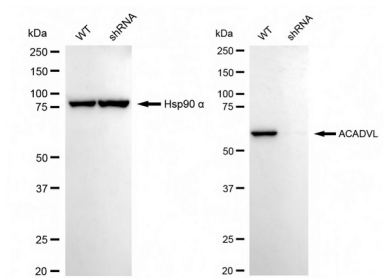
The protein encoded by this gene is targeted to the inner mitochondrial membrane where it catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific to long-chain and very-long-

chain fatty acids. A deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

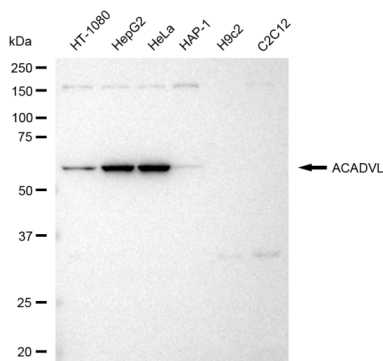
Research Area

Signal Transduction, Cardiovascular, Cancer, Metabolism

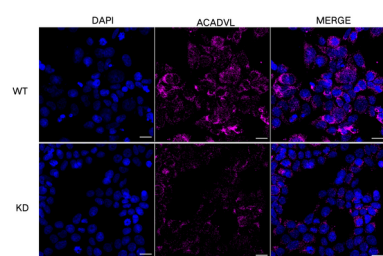
Image Data



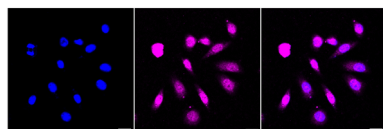
Western blotting analysis using ACADVL antibody (KVA01543). ACADVL expression in wild type (WT) and ACADVL shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ACADVL antibody (KVA01543, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



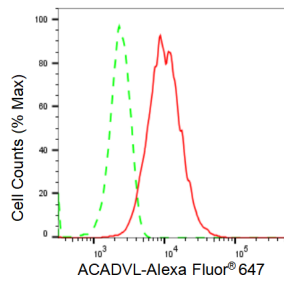
Western blotting analysis using ACADVL antibody (KVA01543). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ACADVL antibody (KVA01543, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using ACADVL antibody (KVA01543, 1:1,000), Top panel: wild-type (WT); Bottom panel: ACADVL shRNA knockdown (KD). Nuclei were stained blue with DAPI; ACADVL was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with ACADVL antibody (KVA01543, 1:1,000). Nuclei were stained blue with DAPI; ACADVL 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.



Flow cytometric analysis of ACADVL expression in HepG2 cells using ACADVL antibody (KVA01543, 1:2,000). Green, isotype control; red, ACADVL.