

Product Name: KD-Validated ACAD9 Mouse Monoclonal Antibody**Catalog #: KVA01129**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse 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 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 68.8kDa

Antigen Information

Gene Name	ACAD9
Alternative Names	ACAD9; Acyl-CoA Dehydrogenase Family Member 9; NPD002; Acyl-Coenzyme A Dehydrogenase Family, Member 9; Complex I Assembly Factor ACAD9, Mitochondrial; MGC14452; Very-Long-Chain Acyl-CoA Dehydrogenase VLCAD; Acyl-CoA Dehydrogenase Family, Member 9; EC 1.3.99.10; EC 1.3.8.-; EC 1.3.99; MC1DN20; ACAD-9
Gene ID	28976.0
SwissProt ID	Q9H845
Immunogen	Recombinant protein of human ACAD9

Background

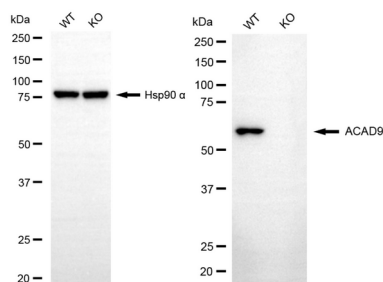
This gene encodes a member of the acyl-CoA dehydrogenase family. Members of this family of proteins localize to the

mitochondria and catalyze the rate-limiting step in the beta-oxidation of fatty acyl-CoA. The encoded protein is specifically active toward palmitoyl-CoA and long-chain unsaturated substrates. Mutations in this gene cause acyl-CoA dehydrogenase family member type 9 deficiency. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Mar 2010]

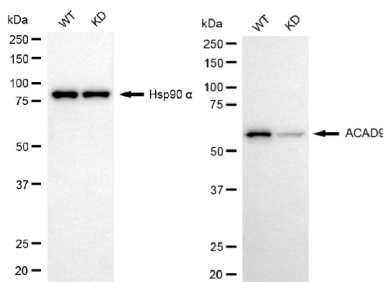
Research Area

Signal Transduction, Metabolism

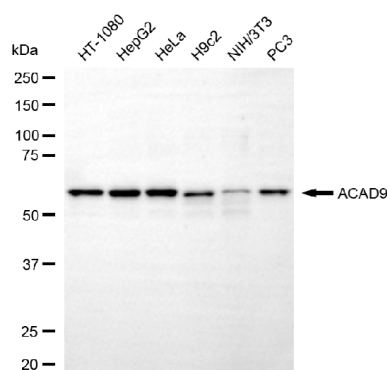
Image Data



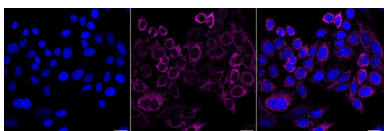
Western blotting analysis using ACAD9 antibody (KVA01129). ACAD9 expression in wild-type (WT) and ACAD9 knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ACAD9 antibody (KVA01129, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



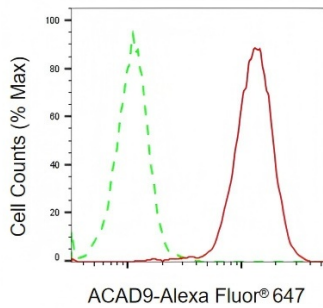
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Western blotting analysis using ACAD9 antibody (KVA01129). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ACAD9 antibody (KVA01129, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with ACAD9 antibody (KVA01129, 1:1,000). Nuclei were stained blue with DAPI; ACAD9 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of ACAD9 expression in HepG2 cells using ACAD9 antibody (KVA01129, 1:2,000). Green, isotype control; red, ACAD9.