

**KD-Validated Anti-ACADVL Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1225****Specification****KD-Validated Anti-ACADVL Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P49748</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 70 kDa , observed, 65 kDa
Gene Name	KDa ACADVL
Aliases	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
Immunogen	A synthesized peptide derived from human ACADVL/VLCAD

**KD-Validated Anti-ACADVL Rabbit Monoclonal Antibody - Additional Information**

Gene ID 37

**Other Names**

Very long-chain specific acyl-CoA dehydrogenase, mitochondrial, VLCAD, 1.3.8.9, ACADVL ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=92](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=92))  
HGNC:92

**KD-Validated Anti-ACADVL Rabbit Monoclonal Antibody - Protein Information**Name ACADVL ([HGNC:92](#))**Function**

Very long-chain specific acyl-CoA dehydrogenase is one of the acyl-CoA dehydrogenases that catalyze the first step of mitochondrial fatty acid beta-oxidation, an aerobic process breaking down fatty acids into acetyl-CoA and allowing the production of energy from fats (PubMed:[18227065](http://www.uniprot.org/citations/18227065), PubMed:[7668252](http://www.uniprot.org/citations/7668252), PubMed:[9461620](http://www.uniprot.org/citations/9461620), PubMed:[9599005](http://www.uniprot.org/citations/9599005), PubMed:[9839948](http://www.uniprot.org/citations/9839948)). The first step of fatty acid beta-oxidation consists in the removal of one hydrogen from C-2 and C-3 of the straight-chain fatty acyl-CoA thioester, resulting in the formation of trans-2-enoyl-CoA (PubMed:[18227065](http://www.uniprot.org/citations/18227065), PubMed:[7668252](http://www.uniprot.org/citations/7668252), PubMed:[9461620](http://www.uniprot.org/citations/9461620)).

PubMed:<a href="http://www.uniprot.org/citations/9839948" target="\_blank">9839948</a>). Among the different mitochondrial acyl-CoA dehydrogenases, very long- chain specific acyl-CoA dehydrogenase acts specifically on acyl-CoAs with saturated 12 to 24 carbons long primary chains (PubMed:<a href="http://www.uniprot.org/citations/21237683" target="\_blank">21237683</a>, PubMed:<a href="http://www.uniprot.org/citations/9839948" target="\_blank">9839948</a>).

### Cellular Location

Mitochondrion inner membrane; Peripheral membrane protein

### Tissue Location

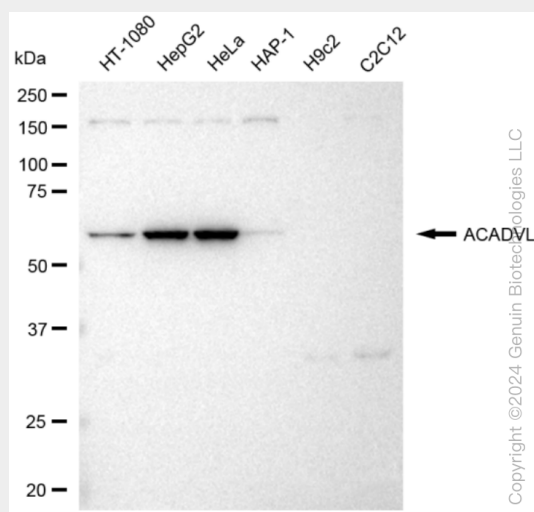
Predominantly expressed in heart and skeletal muscle (at protein level). Also detected in kidney and liver (at protein level).

## KD-Validated Anti-ACADVL Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## KD-Validated Anti-ACADVL Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ACADVL antibody (Cat#AGI1225). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ACADVL antibody (Cat#AGI1225, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

