

ACADVL/VLCAD Antibody
Rabbit mAb
Catalog # AP93241**Specification****ACADVL/VLCAD Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	P49748
Clonality	Monoclonal
Other Names	
ACAD6; Acadvl; LCACD; VLCAD;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	70390 Da

ACADVL/VLCAD Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ACADVL/VLCAD
Description	Active toward esters of long-chain and very long chain fatty acids such as palmitoyl-CoA, mysritoyl-CoA and stearoyl-CoA. Can accomodate substrate acyl chain lengths as long as 24 carbons, but shows little activity for substrates of less than 12 carbons.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

ACADVL/VLCAD Antibody - Protein InformationName 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, PubMed:7668252, PubMed:9461620, PubMed:9839948). 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:21237683, PubMed:9839948).

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).

ACADVL/VLCAD 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](#)

ACADVL/VLCAD Antibody - Images