10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ACADVL Polyclonal Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11520

Specification

ACADVL Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	P45953
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**70749**

ACADVL Polyclonal Antibody - Additional Information

Gene ID 25363

Other Names
Very long-chain specific acyl-CoA dehydrogenase, VLCAD

Target/Specificity
ACADVL

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit anti-ACAD-9 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Background Descriptions

Precautions
ACADVL Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ACADVL Polyclonal Antibody - Protein Information

Name Acadvl {ECO:0000312|RGD:2014}

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:8034667, PubMed:1730632). 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:8034667, PubMed:1730632). 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:1730632).

Cellular Location
Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P49748}

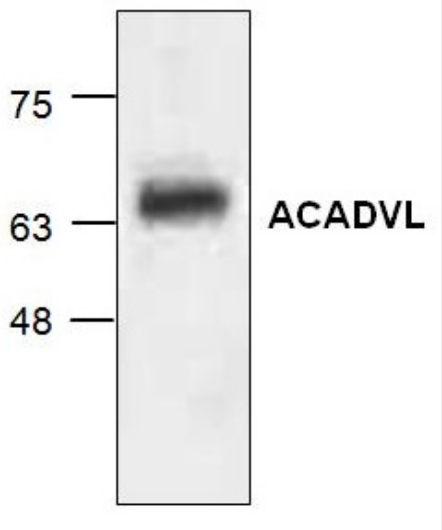
Tissue Location
Widely expressed (at protein level).

ACADVL Polyclonal 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 Cytomety
- Cell Culture

ACADVL Polyclonal Antibody - Images



Western blot analysis of ACADVL with rat kidney tissue lysate.

ACADVL Polyclonal Antibody - Background

Acyl-CoA dehydrogenase, very long chain (ACADVL) is a member of the acyl-CoA dehydrogenases family. ACADVL is an inner mitochondrial membrane protein that catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. A deficiency of ACADVL reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy.