

ACADL Antibody

Rabbit Polyclonal Antibody Catalog # ABV10110

Specification

ACADL Antibody - Product Information

Application Primary Accession Reactivity

Host Clonality Isotype

Calculated MW

WB

P28330

Human, Mouse, Rat

Rabbit Polyclonal Rabbit IgG 47656

ACADL Antibody - Additional Information

Gene ID 33

Positive Control

Application & Usage

Rat kidney tissue lysate, mouse 3T3 cell

lysate, and Jurkat cell lysate

The antibody can be used for Western blot analysis (1-4 μ g/ml). However, the optimal

conditions should be determined

individually. Blocking peptide is available

separately.

Other Names

Long-chain specific acyl-CoA dehydrogenase

Target/Specificity

ACADL

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

 $100~\mu g$ (0.5 mg/ml) affinity purified rabbit anti-ACADL polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

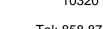
Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions





Precautions

ACADL Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ACADL Antibody - Protein Information

Name ACADL (HGNC:88)

Function

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 (By similarity). 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 (By similarity). Among the different mitochondrial acyl-CoA dehydrogenases, long-chain specific acyl-CoA dehydrogenase can act on saturated and unsaturated acyl-CoAs with 6 to 24 carbons with a preference for 8 to 18 carbons long primary chains (PubMed:8823175, PubMed:21237683).

Cellular Location

Mitochondrion matrix {ECO:0000250|UniProtKB:P15650}

ACADL 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

ACADL Antibody - Images

ACADL Antibody - Background

ACADL belongs to the acyl-CoA dehydrogenase family, which is a family of mitochondrial flavoenzymes. This protein is involved in fatty acid and branched chain amino acid metabolism. ACADL catalyzes the initial step of mitochondria beta-oxidation of straight-chain fatty acid.