

ACADL Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10110**Specification**

ACADL Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | P28330 |
| Reactivity | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 47656 |

ACADL Antibody - Additional Information**Gene ID 33**

| | |
|---------------------|--|
| Positive Control | Rat kidney tissue lysate, mouse 3T3 cell lysate, and Jurkat cell lysate |
| Application & Usage | The antibody can be used for Western blot analysis (1-4 µg/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 µg (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 Cytometry](#)
- [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.