

ACADS Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10395**Specification**

ACADS Antibody - Product Information

Application	WB
Primary Accession	P15651
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	44765

ACADS Antibody - Additional Information**Gene ID** 64304

Positive Control	Jurkat cell lysate and rat kidney tissue lysate
Application & Usage	Western Blot analysis (1-4 µg/ml). However, the optimal concentrations should be determined individually. Blocking peptide is available separately.

Other Names

Short-chain specific acyl-CoA dehydrogenase, Butyryl-CoA dehydrogenase

Target/Specificity

ACADS

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-ACADS 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**

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

ACADS Antibody - Protein Information

Name Acads

Function

Short-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:3968063). 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:3968063). Among the different mitochondrial acyl-CoA dehydrogenases, short-chain specific acyl-CoA dehydrogenase acts specifically on acyl-CoAs with saturated 4 to 6 carbons long primary chains (PubMed:3968063).

Cellular Location

Mitochondrion matrix {ECO:0000250|UniProtKB:Q3ZBF6}

ACADS 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](#)

ACADS Antibody - Images

ACADS Antibody - Background

ACADS (acyl-Coenzyme A dehydrogenase), is a homotetrameric mitochondrial flavoprotein that belongs to the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutation of this gene causes SCAD deficiency an acute acidosis and muscle weakness in infants and lipid-storage myopathy in adults.