10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

ACADM Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10108

Specification

ACADM Antibody - Product Information

Application	**WB**
Primary Accession	P08503
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**46555**

ACADM Antibody - Additional Information

Gene ID 24158

Positive Control	**Rat kidney tissue lysate**
Application & Usage	**Western blot analysis (1-4 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide is available separately.**

Other Names
Medium-chain specific acyl-CoA dehydrogenase

Target/Specificity
ACADM

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit anti-ACADM 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
ACADM Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ACADM Antibody - Protein Information

Name Acadm {ECO:0000312|RGD:2012}

Function
Medium-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). Electron transfer flavoprotein (ETF) is the electron acceptor that transfers electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase) (By similarity). Among the different mitochondrial acyl-CoA dehydrogenases, medium-chain specific acyl-CoA dehydrogenase acts specifically on acyl-CoAs with saturated 6 to 12 carbons long primary chains (PubMed:3968063).

Cellular Location
Mitochondrion matrix

ACADM 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

ACADM Antibody - Images

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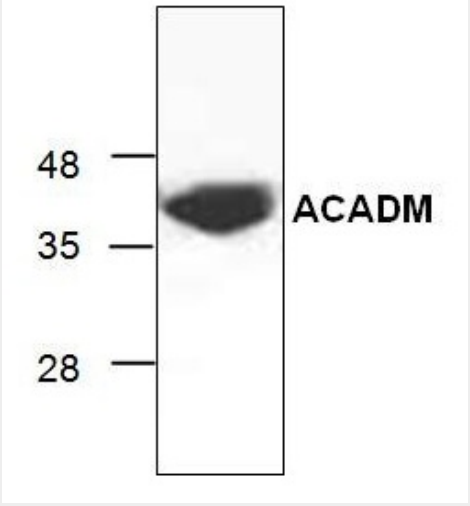

Western blot analysis of ACADM with rat kidney tissue lysate.

ACADM Antibody - Background

Medium-chain acyl-CoA dehydrogenase (MCAD, ACADM) is a homotetramer enzyme that catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway.