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Anti-MCAD / ACADM Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18163

Specification

Anti-MCAD / ACADM Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P11310
Predicted	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**46588**
Dilution	**WB~~1:1000** **IHC-P~~N/A**

Anti-MCAD / ACADM Antibody - Additional Information

Gene ID 34

Alias Symbol	**ACADM**

Other Names
ACADM, ACAD1, MCAD, MCADH

Target/Specificity
Human MCAD / ACADM

Reconstitution & Storage
Affinity purified

Precautions
Anti-MCAD / ACADM Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-MCAD / ACADM Antibody - Protein Information

Name ACADM (HGNC:89)

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 (FAO), breaking down fatty acids into acetyl- CoA and allowing the production of energy from fats (PubMed:1970566, PubMed:21237683, PubMed:2251268, PubMed:8823175). The first step of FAO consists in the proR-proR stereospecific alpha, beta-dehydrogenation of fatty acyl-CoA thioesters using the electron transfer flavoprotein (ETF) as their physiologic electron acceptor,

resulting in the formation of trans-2-enoyl-CoA ((2E)-enoyl-CoA) (PubMed:2251268). ETF is the electron acceptor that transfers electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase) (PubMed:15159392, PubMed:25416781). Among the different mitochondrial acyl-CoA dehydrogenases, medium-chain specific acyl-CoA dehydrogenase has preference for fatty acyl-CoAs with saturated 6 to 12 carbons long primary chains, making it but can also catalyze longer chains such as C14 and C16 (PubMed:1970566, PubMed:21237683, PubMed:2251268, PubMed:8823175).

Cellular Location
Mitochondrion matrix

Tissue Location
Expressed ubiquitously with highest levels in heart and muscle.

Anti-MCAD / 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

Anti-MCAD / ACADM Antibody - Images