

ACADM Antibody
Rabbit mAb
Catalog # AP92183

Specification

ACADM Antibody - Product Information

Application	WB, IHC, ICC, IP
Primary Accession	P11310
Reactivity	Rat
Clonality	Monoclonal
Other Names	
ACAD1; Acadm; MCAD; MCADH;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	46588 Da

ACADM Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ACADM
Description	This enzyme is specific for acyl chain lengths of 4 to 16.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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, an aerobic process breaking down fatty acids into acetyl-CoA and allowing the production of energy from fats (PubMed:[1970566](http://www.uniprot.org/citations/1970566), PubMed:[21237683](http://www.uniprot.org/citations/21237683), PubMed:[2251268](http://www.uniprot.org/citations/2251268), PubMed:[8823175](http://www.uniprot.org/citations/8823175)). 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:[2251268](http://www.uniprot.org/citations/2251268)). Electron transfer flavoprotein (ETF) is the electron acceptor that transfers electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase) (PubMed:[15159392](http://www.uniprot.org/citations/15159392), PubMed:[25416781](http://www.uniprot.org/citations/25416781)).

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:1970566, PubMed:21237683, PubMed:2251268, PubMed:8823175).

Cellular Location

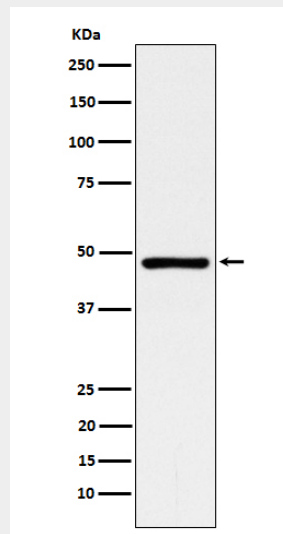
Mitochondrion matrix

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 Cytometry](#)
- [Cell Culture](#)

ACADM Antibody - Images



Western blot analysis of ACADM expression in HepG2 cell lysate.