

MCAD / ACADM Antibody
Rabbit Polyclonal Antibody
Catalog # ALS11789**Specification**

MCAD / ACADM Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P11310
Reactivity	Human, Mouse, Pig, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A

MCAD / ACADM Antibody - Additional Information**Gene ID** 34**Other Names**

Medium-chain specific acyl-CoA dehydrogenase, mitochondrial, MCAD, 1.3.8.7, ACADM

Target/Specificity

Human recombinant MCAD1

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

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

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, an aerobic process 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 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). 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, PubMed: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

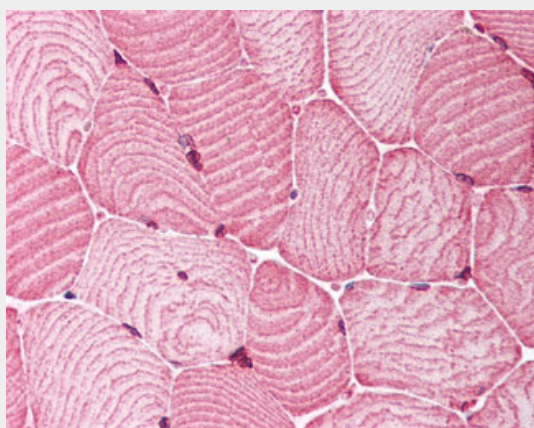
Volume

1 ea

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

MCAD / ACADM Antibody - Images

Anti-ACADM antibody IHC of human skeletal muscle.

MCAD / ACADM Antibody - Background

This enzyme is specific for acyl chain lengths of 4 to 16.

MCAD / ACADM Antibody - References

Kelly D.P., et al. Proc. Natl. Acad. Sci. U.S.A. 84:4068-4072(1987).
Zhang Z.F., et al. Biochemistry 31:81-89(1992).

Sun F.,et al.Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).