

ACADM Antibody

Rabbit mAb Catalog # AP92183

Product Information

Application WB, IHC, IF, ICC, IP, IHF

Primary Accession P11310

Reactivity Rat, Human, Mouse

Clonality Monoclonal

Other Names ACAD1; Acadm; MCAD; MCADH;

IsotypeRabbit IgGHostRabbitCalculated MW46588

Additional Information

Dilution WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50

Purification Affinity-chromatography

ImmunogenA synthesized peptide derived from human ACADMDescriptionThis 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.

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,

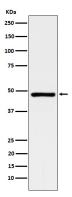
PubMed:<u>21237683</u>, PubMed:<u>2251268</u>, PubMed:<u>8823175</u>). The first step of fatty acid beta-oxidation consists in the removal of one hydrogen from C-2 and C-3 of the straight-chain fatty acyl-CoA thioester, resulting in the formation of trans-2-enoyl-CoA (PubMed:<u>2251268</u>). Electron 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

Images



Western blot analysis of ACADM expression in HepG2 cell lysate.

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