

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;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	46588

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
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.

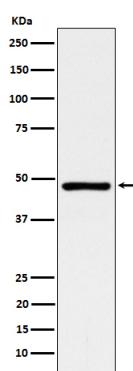
Protein Information

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.

Images



Western blot analysis of ACADM expression in HepG2 cell lysate.

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