

Product Name: ACADM (7K9) Rabbit Monoclonal Antibody
Catalog #: AMRe06463

Summary

Production Name	ACADM (7K9) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	ACADM
Alternative Names	ACAD1; Acadm; MCAD; MCADH;
Gene ID	34.0
SwissProt ID	P11310.A synthetic peptide of human ACADM/MCAD

Application

Dilution Ratio	WB: 1:1000
Molecular Weight	47kDa

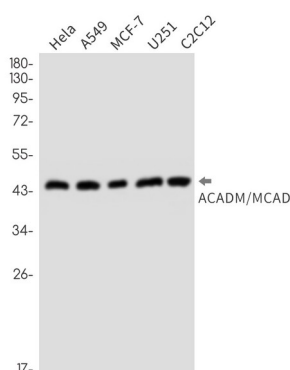
Background

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This enzyme is specific for acyl chain lengths of 4 to 16. 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:8823175, PubMed:21237683, PubMed:2251268). 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:25416781, PubMed:15159392). 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:8823175, PubMed:21237683, PubMed:2251268).

Research Area

Image Data



Western blot detection of ACADM/MCAD in HeLa,A549,MCF-7,U251,C2C12 cell lysates using ACADM/MCAD antibody(1:1000 diluted).



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Note

For research use only.