ACADM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACADM, Polyclonal Antibody
Full Product Name	ACADM (Center) Rabbit pAb
Product Gene Name	anti-ACADM antibody
Product Synonym Names	Medium-chain specific acyl-CoA dehydrogenase, mitochondrial; MCAD; ACADM
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB20911
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Affinity Purified
OMIM	phenotype 607008
3D Structure	ModBase 3D Structure for P11310
Immunogen	This ACADM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 189-217 amino acids from the central region of human ACADM.
Cellular Localization	Mitochondrion
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACADM antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-ACADM antibody	WB: 1:1000 ICC: 1:10-50 IHC: 1:50-100 FC/FACS: 1:10-50
Related Product Information for anti-ACADM antibody	MBS8554760 is an antibody targeting ACADM. Also known as ACADM (Center) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-ACADM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACADM. It may not necessarily be applicable to this product.

NCBI GI #	113017
NCBI GeneID	34
NCBI Accession #	P11310.1
UniProt Primary Accession #	P11310

UniProt Related Accession #	P11310
NCBI Official Full Name	Medium-chain specific acyl-CoA dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	acyl-CoA dehydrogenase medium chain
NCBI Official Symbol	ACADM
NCBI Official Synonym Symbols	MCAD; ACAD1; MCADH
UniProt Protein Name	Medium-chain specific acyl-CoA dehydrogenase, mitochondrial
Protein Family	Medium-chain specific acyl-CoA dehydrogenase
UniProt Gene Name	ACADM
UniProt Synonym Gene Names	MCAD
UniProt Entry Name	ACADM_HUMAN
NCBI Protein Information	medium-chain specific acyl-CoA dehydrogenase, mitochondrial
NCBI Summary for ACADM	This gene encodes the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Defects in this gene cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ACADM	ACADM: This enzyme is specific for acyl chain lengths of 4 to 16. Defects in ACADM are the cause of acyl-CoA dehydrogenase medium-chain deficiency (ACADMD). It is an autosomal recessive disease which causes fasting hypoglycemia, hepatic dysfunction, and encephalopathy, often resulting in death in infancy. Belongs to the acyl-CoA dehydrogenase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 1.3.8.7; Mitochondrial; Carbohydrate Metabolism - propanoate; Oxidoreductase; Lipid Metabolism - fatty acid; Amino Acid Metabolism - valine, leucine and isoleucine degradation; Other Amino Acids Metabolism - beta-alanine Chromosomal Location of Human Ortholog: 1p31 Cellular Component: mitochondrion; axon; mitochondrial matrix; nucleus Molecular Function: acyl-CoA dehydrogenase activity; identical protein binding; FAD binding Biological Process: carnitine metabolic process, CoA-linked; fatty acid beta-oxidation; medium-chain fatty acid catabolic process; cellular lipid metabolic process; medium-chain fatty acid metabolic process; fatty acid beta-oxidation using acyl-CoA dehydrogenase; carnitine biosynthetic process Disease: Acyl-coa Dehydrogenase, Medium-chain, Deficiency Of
Research Articles on ACADM	**1.** Our study has revealed the unique genetic backgrounds of MCAD deficiency among Japanese, based on the largest series of non-Caucasian cases.
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