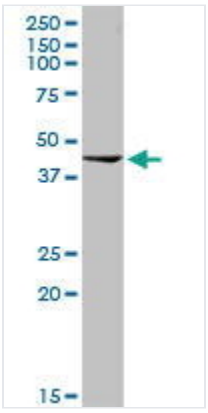
ACADM Antibody – Rabbit Polyclonal

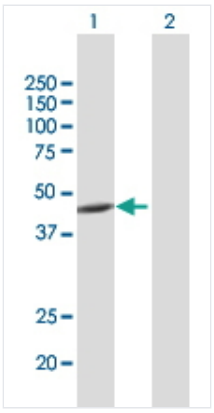
PRODUCT OVERVIEW

Product Name	ACADM, Polyclonal Antibody
Full Product Name	ACADM (Medium-chain Specific Acyl-CoA Dehydrogenase, Mitochondrial, MCAD) (PE)
Product Gene Name	anti-ACADM antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ACADM. Species Crossreactivity: mouse and rat.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	47,020 Da
OMIM	phenotype 607008
3D Structure	ModBase 3D Structure for P11310
Immunogen	Full length human ACADM, aa1-421 (NP_000007.1).
Immunogen Sequence	MAAGFGRCCRVLRSISRFHWRSQHTKANRQREPGLGFSFEFTEQQKEFQATARKFAREEIIPVAAEYDKTGEYPVPLIRRAWELGLMNTHIPENCGGLGL
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-ACADM antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-ACADM antibody	Western Blot (WB)
Application Notes for anti-ACADM antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ACADM antibody	ACADM is the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step
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 neces

Searchable Terms for ACADM purchase	MBS6368482 is an antibody targeting ACADM. Also known as ACADM (Medium-chain Specific Acyl-CoA Dehydrogenase, Mitochondrial, MCAD) (PE)



Western Blot (WB) of anti-ACADM antibody
ACADM rabbit polyclonal antibody Western Blot analysis of ACADM expression in mouse kidney.



Western Blot (WB) of anti-ACADM antibody
Western Blot analysis of ACADM expression in transfected 293T cell line by ACADM polyclonal antibody. Lane 1: ACADM transfected lysate (46.6kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

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

NCBI GI #	4557231
NCBI GeneID	34
NCBI Accession #	NP_000007.1
UniProt Primary Accession #	P11310
UniProt Secondary Accession #	Q5T4U4; Q9NYF1
UniProt Related Accession #	P11310
GenBank Nucleotide #	NM_000016.2
NCBI Official Full Name	medium-chain specific acyl-CoA dehydrogenase, mitochondrial isoform a
NCBI Official Synonym Full Names	acyl-CoA dehydrogenase, C-4 to C-12 straight 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; acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain
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.** mutations in the ACADM gene lower the temperature threshold at which medium-chain acyl-CoA dehydrogenase deficiency loss-of-function occurs.
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