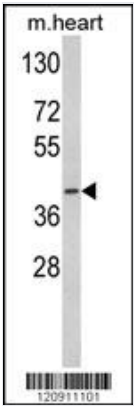
# ACADM Antibody – Rabbit Polyclonal

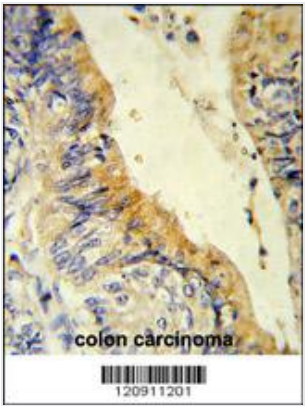
## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | ACADM, Polyclonal Antibody |
| **Full Product Name** | ACADM Antibody (Center) |
| **Product Gene Name** | anti-ACADM antibody |
| **Product Synonym Names** | Medium-chain specific acyl-CoA dehydrogenase; mitochondrial; MCAD; ACADM |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit Ig |
| **Host** | Rabbit |
| **Species Reactivity** | Human, mouse (Predicted Reactivity: Monkey) |
| **Form/Format** | Purified polyclonal antibody 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** | Purified Rabbit Polyclonal Antibody (Pab) |
| **Concentration** | Vial Concentration: 2 (lot specific) |
| **Specificity** | 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. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | ACADM peptide (MBS9226362) is used for blocking the activity of ACADM antibody (MBS9211145) |
| **Molecular Weight** | 46588 |
| **Immunogen Sequence Positions** | 189-217 |
| **OMIM** | 201450 |
| **3D Structure** | ModBase 3D Structure for P11310 |
| **Antigen Type** | Synthetic Peptide |
| **Antigen Source** | HUMAN |
| **Product Categories/Family for anti-ACADM antibody** | Cancer; Cardiovascular; Metabolism; Signal transduction |
| **Applications Tested/Suitable for anti-ACADM antibody** | Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS), Immunofluorescence (IF) |
| **Application Notes for anti-ACADM antibody** | WB~~1:1000 |
| **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 of the mitochondrial fatty acid beta-oxidation pathway. |
| **Product References and Citations for anti-ACADM antibody** | Ferreira,A.C., et.al., Genet. Mol. Res. 8 (2), 487-493 (2009) |
| **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. |

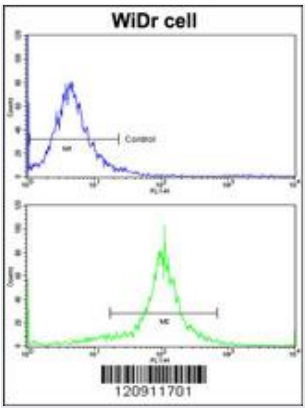
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| **Searchable Terms for ACADM purchase** | MBS9211145 is an antibody targeting ACADM. Also known as ACADM Antibody (Center). Reactive in Human, mouse (Predicted Reactivity: Monkey). Host: Rabbit. |



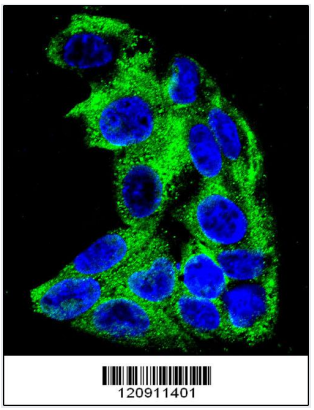

**Western Blot (WB) of anti-ACADM antibody**
Western blot analysis of ACADM Antibody (Center) in mouse heart tissue lysates (35ug/lane). ACADM (arrow) was detected using the purified Pab.




**Immunohistochemistry (IHC) of anti-ACADM antibody**
Formalin-fixed and paraffin-embedded human colon carcinoma reacted with ACADM Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




**Flow Cytometry (FC/FACS) of anti-ACADM antibody**
Flow cytometric analysis of widr cells using ACADM Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.




**Immunofluorescence (IF) of anti-ACADM antibody**
Confocal immunofluorescent analysis of ACADM Antibody (Center) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

## 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 |
| **NCBI Related Accession #** | NP_001120800.1 |
| **UniProt Primary Accession #** | P11310 |
| **UniProt Secondary Accession #** | Q5T4U4; Q9NYF1 |
| **UniProt Related Accession #** | P11310 |
| **GenBank Nucleotide #** | NM_000016.5 |
| **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 |
| **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.<br><br>Protein type: Other Amino Acids Metabolism - beta-alanine; Mitochondrial; Oxidoreductase; Carbohydrate Metabolism - propanoate; EC 1.3.8.7; Lipid Metabolism - fatty acid; Amino Acid Metabolism - valine, leucine and isoleucine degradation<br><br>Chromosomal Location of Human Ortholog: 1p31<br><br>Cellular Component: mitochondrion; mitochondrial matrix; axon; nucleus<br><br>Molecular Function: identical protein binding; acyl-CoA dehydrogenase activity; FAD binding<br><br>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<br><br>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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