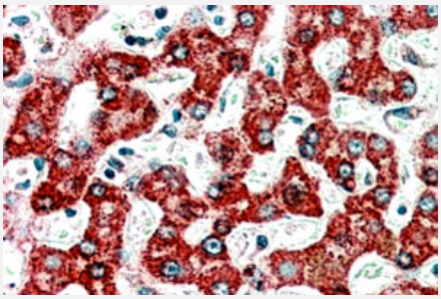
# ACADM polyclonal antibody

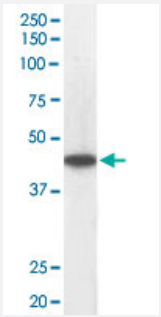
Catalog # PAB6264 Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

ACADM polyclonal antibody (Cat # PAB6264) (3.8 ug/mL) staining of paraffin embedded human liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.




### Western Blot (Tissue lysate)

ACADM polyclonal antibody (Cat # PAB6264) staining (0.05 ug/mL) of human heart lysate (RIPA buffer, 35 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

## Specification

| | |
|---|---|
| **Product Description** | Goat polyclonal antibody raised against synthetic peptide of ACADM. |
| **Immunogen** | A synthetic peptide corresponding to human ACADM. |
| **Sequence** | C-RLIVAREHIDKYKN |
| **Host** | Goat |
| **Theoretical MW (kDa)** | 46.6, 47.0 |
| **Reactivity** | Human |
| **Form** | Liquid |

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| | |
|---|---|
| **Purification** | Antigen affinity purification |
| **Concentration** | 0.5 mg/mL |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |
| **Recommend Usage** | ELISA (1:32000)<br>Western blot (0.01-0.1 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (3-5 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  ACADM polyclonal antibody (Cat # PAB6264) (3.8 ug/mL) staining of paraffin embedded human liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Tissue lysate)

  ACADM polyclonal antibody (Cat # PAB6264) staining (0.05 ug/mL) of human heart lysate (RIPA buffer, 35 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

## Gene Info — ACADM

| | |
|---|---|
| **Entrez GeneID** | 34 |
| **Protein Accession#** | NP_000007.1 |
| **Gene Name** | ACADM |
| **Gene Alias** | ACAD1, FLJ18227, FLJ93013, FLJ99884, MCAD, MCADH |
| **Gene Description** | acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain |
| **Omim ID** | 201450 607008 |

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| | |
|---|---|
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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 |
| **Other Designations** | OTTHUMP00000011345\|medium-chain specific acyl-CoA dehydrogenase |

## Publication Reference

- Suppression of oxidative metabolism and mitochondrial biogenesis by the transcriptional corepressor RIP140 in mouse adipocytes.

  Powelka AM, Seth A, Virbasius JV, Kiskinis E, Nicoloro SM, Guilherme A, Tang X, Straubhaar J, Cherniack AD, Parker MG, Czech MP.

  The Journal of Clinical Investigation 2005 Dec; 16(1):125.

## Pathway

- beta-Alanine metabolism
- Fatty acid metabolism
- Metabolic pathways
- PPAR signaling pathway
- Propanoate metabolism
- Valine

## Disease

- Cardiovascular Diseases
- Death
- Deficiency Diseases
- Diabetes Mellitus

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- Edema
- Epilepsy
- Genetic Predisposition to Disease
- Hypoglycemia
- Lipid Metabolism
- Metabolism
- Seizures
- Sleep Stages

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