

**ACADM Blocking Peptide**  
**Catalog # PBV10059b****Specification**

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**ACADM Blocking Peptide - Product Information**

Primary Accession	<a href="#">P08503</a>
Gene ID	<b>24158</b>
Calculated MW	<b>46555</b>

**ACADM Blocking Peptide - Additional Information****Gene ID** 24158**Application & Usage**

The peptide is used for blocking the antibody activity of ACADM. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

**Other Names**

Medium-chain specific acyl-CoA dehydrogenase, mitochondrial, MCAD, 1.3.8.7, Acadm

**Target/Specificity**

ACADM

**Formulation**

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

ACADM Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

**ACADM Blocking Peptide - Protein Information****Name** Acadm {ECO:0000312|RGD:2012}**Function**

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:<a href="http://www.uniprot.org/citations/3968063" target="\_blank">3968063</a>). 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:<a href="http://www.uniprot.org/citations/3968063" target="\_blank">3968063</a>). Electron transfer flavoprotein (ETF) is the electron acceptor that transfers electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase) (By similarity). 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:<a href="http://www.uniprot.org/citations/3968063" target="\_blank">3968063</a>).

**Cellular Location**

Mitochondrion matrix

**ACADM Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ACADM Blocking Peptide - Images**