

**ACADS Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8712b****Specification**

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**ACADS Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P16219](#)**ACADS Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 35**Other Names**

Short-chain specific acyl-CoA dehydrogenase, mitochondrial, SCAD, Butyryl-CoA dehydrogenase, ACADS

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8712b](/products/AP8712b) was selected from the C-term region of human ACADS. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ACADS Antibody (C-term) Blocking Peptide - Protein Information****Name** ACADS**Function**

Short-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 (By similarity). 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 (By similarity). Among the different mitochondrial acyl-CoA dehydrogenases, short-chain specific acyl-CoA dehydrogenase acts specifically on acyl-CoAs with saturated 4 to 6 carbons long primary chains (PubMed: [21237683](http://www.uniprot.org/citations/21237683), PubMed: [11134486](http://www.uniprot.org/citations/11134486)).

**Cellular Location**

Mitochondrion matrix {ECO:0000250|UniProtKB:Q3ZBF6}

**ACADS Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**ACADS Antibody (C-term) Blocking Peptide - Images****ACADS Antibody (C-term) Blocking Peptide - Background**

ACADS is a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations in this gene have been associated with Short Chain Acyl-CoA Dehydrogenase Deficiency.

**ACADS Antibody (C-term) Blocking Peptide - References**

Naito,E., et.al., J. Clin. Invest. 85 (5), 1575-1582 (1990) Vanhove,G., et.al., Biochem. J. 292 (PT 1), 23-30 (1993)