

ACADL Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8536c**Specification**

ACADL Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P28330](#)**ACADL Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 33

Other Names

Long-chain specific acyl-CoA dehydrogenase, mitochondrial, LCAD, ACADL

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8536c](/products/AP8536c) was selected from the Center region of human ACADL. 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.

ACADL Antibody (Center) Blocking Peptide - Protein InformationName ACADL ([HGNC:88](#))**Function**

Long-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, long-chain specific acyl-CoA dehydrogenase can act on saturated and unsaturated acyl-CoAs with 6 to 24 carbons with a preference for 8 to 18 carbons long primary chains (PubMed:[21237683](http://www.uniprot.org/citations/21237683), PubMed:[8823175](http://www.uniprot.org/citations/8823175)).

Cellular Location

Mitochondrion matrix {ECO:0000250|UniProtKB:P15650}

ACADL Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ACADL Antibody (Center) Blocking Peptide - Images

ACADL Antibody (Center) Blocking Peptide - Background

ACADL belongs to the acyl-CoA dehydrogenase family, which is a family of mitochondrial flavoenzymes involved in fatty acid and branched chain amino-acid metabolism. This protein is one of the four enzymes that catalyze the initial step of mitochondrial beta-oxidation of straight-chain fatty acid.

ACADL Antibody (Center) Blocking Peptide - References

Lu, Y., et al., J. Lipid Res. 49 (12), 2582-2589 (2008) Lea, W., et al., Biochim. Biophys. Acta 1485 (2-3), 121-128 (2000)