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ACADL Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8536C

Specification

ACADL Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P28330
Other Accession	P79274, P51174, Q60HI0
Reactivity	**Human, Mouse**
Predicted	**Monkey, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**292-319**

ACADL Antibody (Center) - Additional Information

Gene ID 33

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

Target/Specificity
This ACADL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 292-319 amino acids from the Central region of human ACADL.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ACADL Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ACADL Antibody (Center) - Protein Information

Name 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, PubMed:8823175).

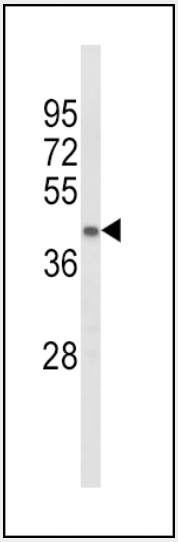
Cellular Location
Mitochondrion matrix {ECO:0000250|UniProtKB:P15650}

ACADL Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ACADL Antibody (Center) - Images



Western blot analysis of ACADL Antibody (Center) (Cat. #AP8536c) in mouse kidney tissue lysates (35ug/lane). ACADL (arrow) was detected using the purified Pab.

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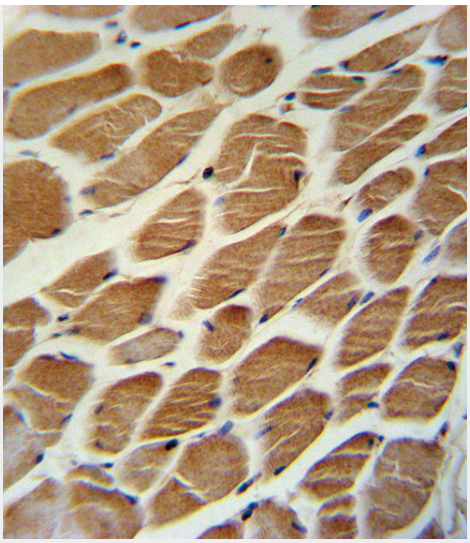

ACADL Antibody (Center) (Cat. #AP8536c) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ACADL Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ACADL Antibody (Center) - 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) - 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)