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ACADSB Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10121

Specification

ACADSB Antibody - Product Information

Application	**WB**
Primary Accession	Q9DBL1
Reactivity	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**47874**

ACADSB Antibody - Additional Information

Gene ID 66885

Positive Control	**Mouse 3T3 cell lysate and rat kidney tissue lysate**
Application & Usage	**The antibody can be used for Western blot analysis (1-4 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide is available separately.**

Other Names
Short/branched chain specific acyl-CoA dehydrogenase, SBCAD

Target/Specificity
ACADSB

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit anti-ACADSB polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
ACADSB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ACADSB Antibody - Protein Information

Name Acadsb {ECO:0000312|MGI:MGI:1914135}

Function
Short and branched chain specific acyl-CoA dehydrogenase that catalyzes the removal of one hydrogen from C-2 and C-3 of the fatty acyl-CoA thioester, resulting in the formation of trans-2-enoyl-CoA. Among the different mitochondrial acyl-CoA dehydrogenases, acts specifically on short and branched chain acyl-CoA derivatives such as (S)-2-methylbutyryl-CoA as well as short straight chain acyl-CoAs such as butyryl-CoA (By similarity). Plays an important role in the metabolism of L-isoleucine by catalyzing the dehydrogenation of 2- methylbutyryl-CoA, one of the steps of the L-isoleucine catabolic pathway (By similarity). Can also act on valproyl-CoA, a metabolite of the valproic acid drug (By similarity).

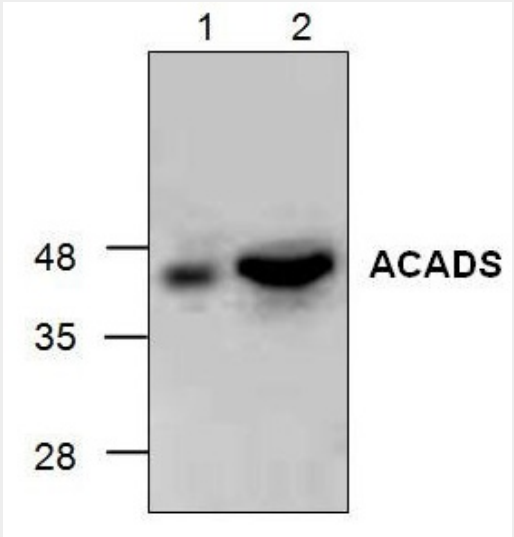
Cellular Location
Mitochondrion matrix {ECO:0000250|UniProtKB:P45954}

ACADSB Antibody - 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

ACADSB Antibody - Images



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Western blot analysis of ACADSB with mouse 3T3 cell lysate (Lane 1) and rat kidney tissue lysate (Lane 2).

ACADSB Antibody - Background

Short/branched chain acyl-CoA dehydrogenase(ACADSB) belongs to the acyl-CoA dehydrogenase family of enzymes that catalyze the dehydrogenation of acyl-CoA derivatives in the metabolism of fatty acids or branch chained amino acids. ACADSB catalyzes the degradation of L-isoleucine and has the greatest affinity towards (S)-2-methylbutyryl-CoA, isobutyryl-CoA and 2-methylhexanoyl-CoA as substrates.