

Datasheet for ABIN2785786

anti-ACADSB antibody (Middle Region)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	ACADSB
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Cow, Dog, Zebrafish (Danio rerio), Guinea Pig, Horse, Rabbit, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACADSB antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human ACADSB
Sequence:	GLRASSTCPL TFENVKVPEA NILGQIGHGY KYAIGSLNEG RIGIAAQLMG
Predicted Reactivity:	Cow: 100%, Dog: 86%, Guinea Pig: 93%, Horse: 86%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100%, Yeast: 86%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against ACADSB. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ACADSB
---------	--------

Target Details

Alternative Name: ACADSB ([ACADSB Products](#))

Background: Short/branched chain acyl-CoA dehydrogenase(ACADSB) is a member of 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. Substrate specificity is the primary characteristic used to define members of this gene family. ACADSB has the greatest activity towards the short branched chain acyl-CoA derivative, (S)-2-methylbutyryl-CoA, but also reacts significantly with other 2-methyl branched chain substrates and with short straight chain acyl-CoAs. Short/branched chain acyl-CoA dehydrogenase(ACADSB) is a member of 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. Substrate specificity is the primary characteristic used to define members of this gene family. The ACADSB gene product has the greatest activity towards the short branched chain acyl-CoA derivative, (S)-2-methylbutyryl-CoA, but also reacts significantly with other 2-methyl branched chain substrates and with short straight chain acyl-CoAs. The cDNA encodes for a mitochondrial precursor protein which is cleaved upon mitochondrial import and predicted to yield a mature peptide of approximately 43.7- kDa. Sequence Note: The 3' UTR extension represented by the RefSeq transcript record was derived from genomic sequence data to optimize consistency to the reference genome assembly. The extent of the UTR extension and the location of the polyA site was based on transcript alignments.

Alias Symbols: 2-MEBCAD, ACAD7, SBCAD

Protein Interaction Partner: SUMO2, UBD, UBC, USP19,

Protein Size: 432

Molecular Weight: 44 kDa

Gene ID: 36

NCBI Accession: [NM_001609](#), [NP_001600](#)

UniProt: [P45954](#)

Pathways: [Monocarboxylic Acid Catabolic Process](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

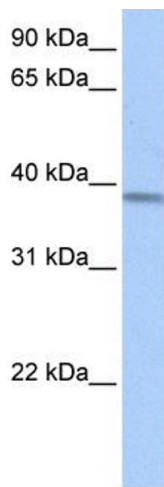
Comment: Antigen size: 432 AA

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-ACADSB Antibody Titration:

0.2-1 ug/ml

Positive Control: Human Liver