Datasheet for ABIN2785735

anti-ACADVL antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	ACADVL
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Cow, Dog, Horse, Rabbit, Zebrafish (Danio rerio), Guinea Pig, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACADVL antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ACADVL
Sequence:	RPYAGGAAQE SKSFAVGMFK GQLTTDQVFP YPSVLNEEQT QFLKELVEPV
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 93%, Pig: 100%, Rabbit: 86%, Rat: 100%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against ACADVL. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ACADVL

Target Details

Alternative Name:	ACADVL (ACADVL Products)
Background:	ACADVL is targeted to the inner mitochondrial membrane where it catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific to long-chain and very-long-chain fatty acids. A deficiency in ACADVL protein reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy.The protein encoded by this gene is targeted to the inner mitochondrial membrane where it catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific to long-chain and very-long-chain fatty acids. A deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Alternative splicing results in multiple transcript variants encoding different isoforms. Alias Symbols: ACAD6, LCACD, VLCAD Protein Interaction Partner: EEF2K, GPHN, RPSA, ATF2, CDH1, INTS9, ATP5L, UBC, SOCS3, ICT1, ACADVL, Protein Size: 633
Molecular Weight:	64 kDa
Gene ID:	37
NCBI Accession:	NM_001033859, NP_001029031
UniProt:	P49748
Pathways:	ER-Nucleus Signaling, Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 633 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.

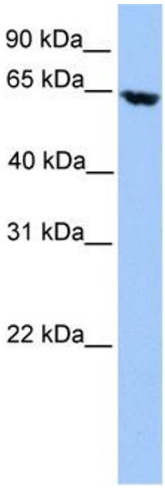
Handling

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.

Publications

Product cited in:	Akter, Mansour, Hyodo, Senga: "FAM98A associates with DDX1-C14orf166-FAM98B in a novel complex involved in colorectal cancer progression." in: **The international journal of biochemistry & cell biology**, Vol. 84, pp. 1-13, (2017) (PubMed). Akter, Mansour, Hyodo, Ito, Hamaguchi, Senga: "Erratum to: FAM98A is a novel substrate of PRMT1 required for tumor cell migration, invasion and colony formation." in: **Tumour biology**, Vol. 37, Issue 5, pp. 7001, (2016) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-ACADVL Antibody Titration:

0.2-1 ug/ml

Positive Control: HepG2 cell lysate