Datasheet for ABIN7602837

anti-ACADSB antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	ACADSB
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACADSB antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-SBCAD/ACADSB Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human SBCAD/ACADSB, identical to the related mouse and rat sequences.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-SBCAD/ACADSB Antibody Picoband® (ABIN7602837). Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	ACADSB
Alternative Name:	ACADSB (ACADSB Products)
Background:	Synonyms: Annexin A8 ,Annexin VIII ,Annexin-8 ,Vascular anticoagulant-beta ,VAC-beta ,ANXA8 ,ANX8, Tissue Specificity: Ubiquitously expressed. Background: ACADSB is a human gene that encodes short/branched chain specific acyl-CoA dehydrogenase (SBCAD), an enzyme in the acyl CoA dehydrogenase family.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.
Molecular Weight:	40-44 kDa
Gene ID:	36
UniProt:	P45954
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat, Monkey Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human, Mouse, Rat 1. Alfardan, J., Mohsen, A.-W., Copeland, S., Ellison, J., Keppen-Davis, L., Rohrbach, M., Powell, B. R., Gillis, J., Matern, D., Kant, J., Vockley, J. Characterization of new ACADSB gene sequence mutations and clinical implications in patients with 2-methylbutyrylglycinuria identified by newborn screening. Molec. Genet. Metab. 100: 333-338, 2010. 2. Andresen, B. S., Christensen, E., Corydon, T. J., Bross, P., Pilgaard, B., Wanders, R. J. A., Ruiter, J. P. N., Simonsen, H., Winter, V., Knudsen, I., Schroeder, L. D., Gregersen, N., Skovby, F. Isolated 2-methylbutyrylglycinuria

Application Details

	caused by short/branched-chain acyl-CoA dehydrogenase deficiency: identification of a new enzyme defect, resolution of its molecular basis, and evidence for distinct acyl-CoA dehydrogenases in isoleucine and valine metabolism. Am. J. Hum. Genet. 67: 1095-1103, 2000. 3. Arden, K. C., Viars, C. S., Fu, K., Rozen, R. Localization of short/branched chain acyl-CoA dehydrogenase (ACADSB) to human chromosome 10. Genomics 25: 743-745, 1995.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.