

ARG45183 anti-ACADSB antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ACADSB
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	ACADSB
Species	Human
Immunogen	Synthetic peptide corresponding to C-terminal region of human ACADSB.
Conjugation	Un-conjugated
Alternate Names	SBCAD; Short/branched chain specific acyl-CoA dehydrogenase, mitochondrial; SBCAD; ACAD7; 2-methylbutyryl-coenzyme A dehydrogenase; EC 1.3.8.5; 2-methylbutyryl-CoA dehydrogenase; 2-methyl branched chain acyl-CoA dehydrogenase; 2-MEBCAD

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	40-44 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.01% Sodium azide and 4% Trehalose.
Preservative	0.01% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

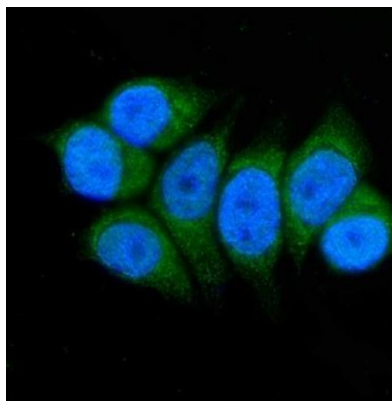
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

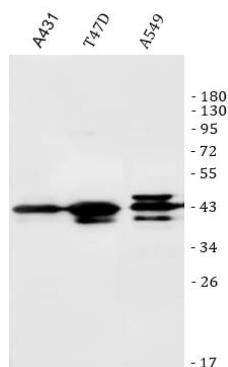
Gene Symbol	ACADSB
Gene Full Name	acyl-CoA dehydrogenase, short/branched chain
Background	Short/branched chain acyl-CoA dehydrogenase(ACADSB) is a member of the acyl-CoA dehydrogenase family of enzymes that catalyze the dehydrogenation of acyl-CoA derivatives in the metabolism of fatty acids or branch chained amino acids. Substrate specificity is the primary characteristic used to define members of this gene family. 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. [provided by RefSeq, Jul 2008]
Function	Has greatest activity toward short branched chain acyl-CoA derivative such as (s)-2-methylbutyryl-CoA, isobutyryl-CoA, and 2-methylhexanoyl-CoA as well as toward short straight chain acyl-CoAs such as butyryl-CoA and hexanoyl-CoA. Can use valproyl-CoA as substrate and may play a role in controlling the metabolic flux of valproic acid in the development of toxicity of this agent. [UniProt]
Calculated Mw	47 kDa
PTM	Acetylation; Phosphoprotein. [UniProt]
Cellular Localization	Mitochondrion matrix.. [UniProt]

Images



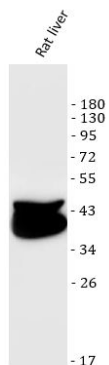
ARG45183 anti-ACADSB antibody ICC/IF image

Immunofluorescence: MCF-7 stained with ARG45183 anti-ACADSB antibody at 5 ug/ml dilution.



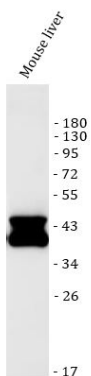
ARG45183 anti-ACADSB antibody WB image

Western blot: A431, T47D, and A549 stained with ARG45183 anti-ACADSB antibody at 0.5 µg/ml dilution.



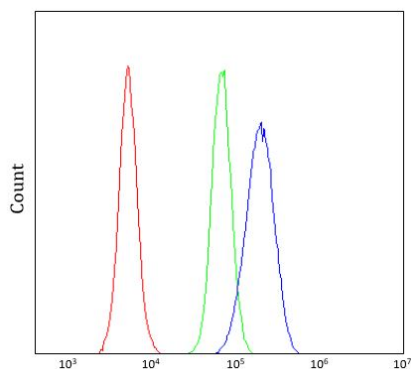
ARG45183 anti-ACADSB antibody WB image

Western blot: Rat liver stained with ARG45183 anti-ACADSB antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



ARG45183 anti-ACADSB antibody WB image

Western blot: Mouse liver stained with ARG45183 anti-ACADSB antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



ARG45183 anti-ACADSB antibody FACS image

Flow Cytometry: RAW264.7 stained with ARG45183 anti-ACADSB antibody at 1 $\mu\text{g}/10^6$ cells dilution.



ARG45183 anti-ACADSB antibody WB image

Western blot: Cos-7 stained with ARG45183 anti-ACADSB antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.