ARG45501
anti-VLCAD antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes VLCAD
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	VLCAD
Species	Human
Immunogen	Synthetic peptide corresponding to C-terminal region of human VLCAD.
Conjugation	Un-conjugated
Alternate Names	ACADVL; Acyl-CoA Dehydrogenase Very Long Chain; VLCAD; LCACD; ACAD6; Very Long-Chain Specific Acyl-CoA Dehydrogenase, Mitochondrial; Acyl-Coenzyme A Dehydrogenase, Very Long Chain; EC 1.3.8.9; EC 1.3.99 47

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
ICC/IF	5 µg/ml
IHC-P	2-5 µg/ml
IP	0.5-2 µg/ml
WB	0.1-0.5 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Observed Size	70 kDa

Properties

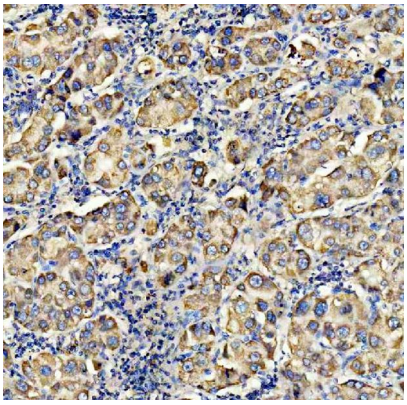
Form	Liquid
Purification	Affinity purified
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

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

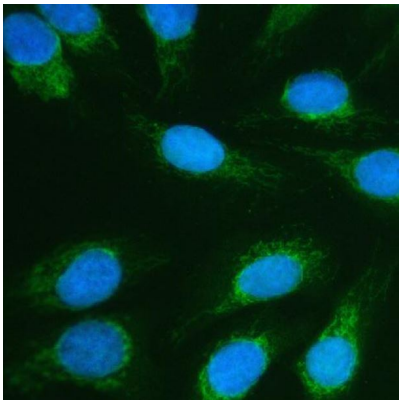
Gene Symbol	ACADVL
Gene Full Name	Acyl-CoA Dehydrogenase Very Long Chain
Background	The protein encoded by this gene is targeted to the inner mitochondrial membrane where it catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific 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. [provided by RefSeq, Jul 2008]
Function	Very long-chain specific acyl-CoA dehydrogenase is one of the acyl-CoA dehydrogenases that catalyze the first step of mitochondrial fatty acid beta-oxidation, an aerobic process breaking down fatty acids into acetyl-CoA and allowing the production of energy from fats [UniProt]
Calculated Mw	70 kDa
PTM	Acetylation; Phosphoprotein; S-nitrosylation. [UniProt]
Cellular Localization	Membrane; Mitochondrion; Mitochondrion inner membrane. [UniProt]

Images



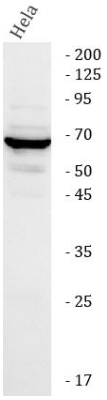
ARG45501 anti-VLCAD antibody IHC-P image

Immunohistochemistry: Human liver cancer stained with ARG45501 anti-VLCAD antibody at 2 µg/ml dilution.



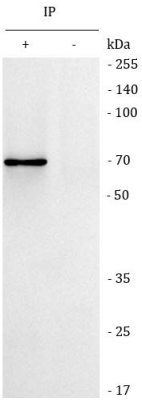
ARG45501 anti-VLCAD antibody ICC/IF image

Immunofluorescence: U2OS stained with ARG45501 anti-VLCAD antibody at 5 µg/ml dilution.



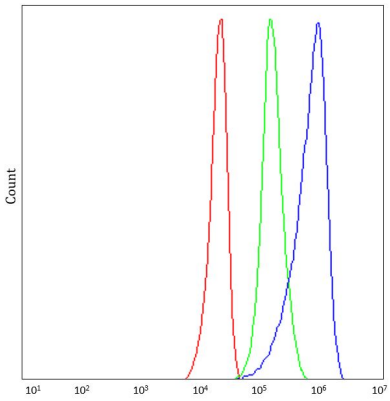
ARG45501 anti-VLCAD antibody WB image

Western blot: Hela stained with ARG45501 anti-VLCAD antibody at 0.5 µg/ml dilution.



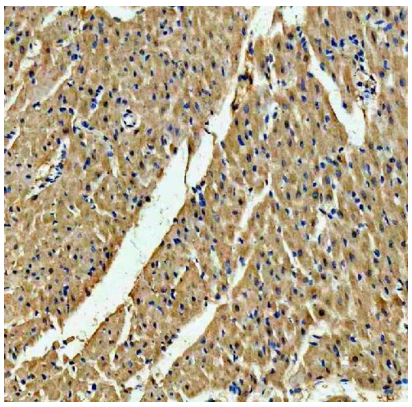
ARG45501 anti-VLCAD antibody IP image

Immunoprecipitation: Hela lysate immunoprecipitated with 2 µg ARG45501 anti-VLCAD antibody.



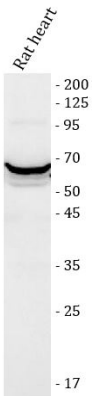
ARG45501 anti-VLCAD antibody FACS image

Flow Cytometry: U251 stained with ARG45501 anti-VLCAD antibody at 1 µg/10^6 cells dilution.



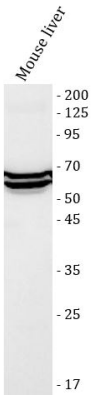
ARG45501 anti-VLCAD antibody IHC-P image

Immunohistochemistry: Rat heart stained with ARG45501 anti-VLCAD antibody at 2 µg/ml dilution.



ARG45501 anti-VLCAD antibody WB image

Western blot: Rat heart stained with ARG45501 anti-VLCAD antibody at 0.5 µg/ml dilution.



ARG45501 anti-VLCAD antibody WB image

Western blot: Mouse liver stained with ARG45501 anti-VLCAD antibody at 0.5 µg/ml dilution.