

Product datasheet

Anti-ACADVL/VLCAD antibody [6A9AF2] ab110285

1 References 3 Images

Overview

Product name	Anti-ACADVL/VLCAD antibody [6A9AF2]
Description	Mouse monoclonal [6A9AF2] to ACADVL/VLCAD
Host species	Mouse
Tested applications	Suitable for: ICC/IF, IP, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Cow, Human
Immunogen	Tissue, cells or virus. This information is considered to be commercially sensitive.
Positive control	Human HDFn cells; Human liver mitochondria; Human cerebellum tissue.
General notes	<p>This antibody clone is manufactured by Abcam.</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p> <p>If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com or you can find further information here.</p> <p>Previously labelled as ACADVL.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
Purity	Proprietary Purification
Purification notes	The antibody was produced in vitro using hybridoma grown in serum-free media and then purified by biochemical fractionation. Purity >95% by SDS-PAGE.
Clonality	Monoclonal
Clone number	6A9AF2
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab110285** in the following tested applications.

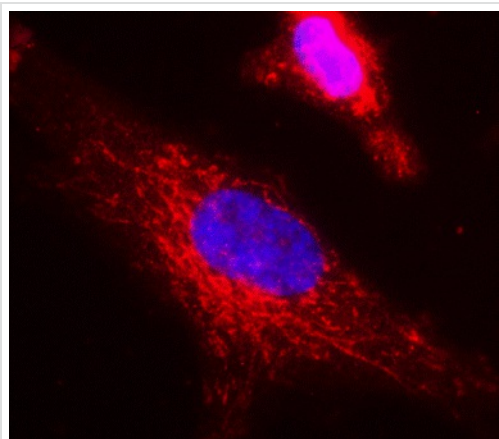
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
IP		Use at an assay dependent concentration.
IHC-P		1/250. Perform heat mediated antigen retrieval - 1 min pressure cook in 1mmol EDTA pH8.

Target

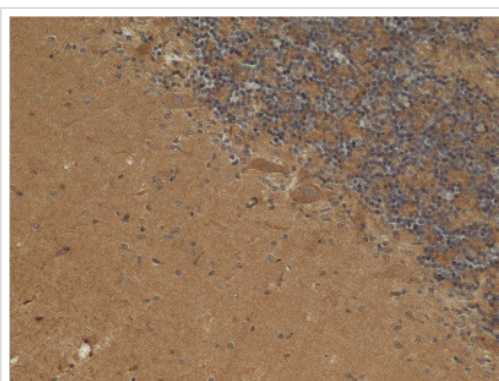
Function	Active toward esters of long-chain and very long chain fatty acids such as palmitoyl-CoA, mysritoyl-CoA and stearoyl-CoA. Can accomodate substrate acyl chain lengths as long as 24 carbons, but shows little activity for substrates of less than 12 carbons.
Pathway	Lipid metabolism; mitochondrial fatty acid beta-oxidation.
Involvement in disease	Defects in ACADVL are the cause of acyl-CoA dehydrogenase very long chain deficiency (ACADVLD) [MIM:201475]. ACADVLD is an autosomal recessive disease which leads to impaired long-chain fatty acid beta-oxidation. It is clinically heterogeneous, with three major phenotypes: a severe childhood form, with early onset, high mortality, and high incidence of cardiomyopathy; a milder childhood form, with later onset, usually with hypoketotic hypoglycemia as the main presenting feature, low mortality, and rare cardiomyopathy; and an adult form, with isolated skeletal muscle involvement, rhabdomyolysis, and myoglobinuria, usually triggered by exercise or fasting.
Sequence similarities	Belongs to the acyl-CoA dehydrogenase family.
Cellular localization	Mitochondrion inner membrane.

Images



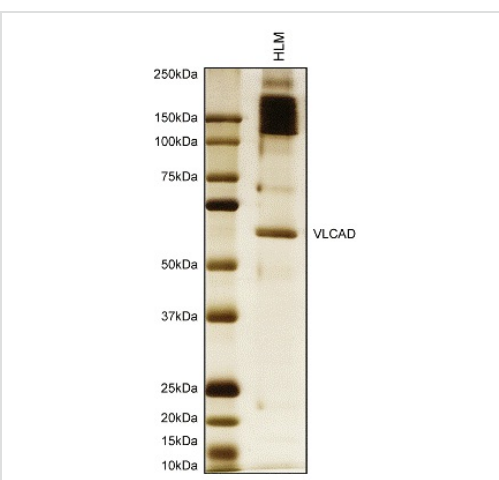
Immunocytochemistry/ Immunofluorescence - Anti-ACADVL/VLCAD antibody [6A9AF2] (ab110285)

Immunocytochemistry image of ACADVL/VLCAD antibody [6A9AF2] (ab110285) stained human HDFn cells. The cells were paraformaldehyde fixed (4%, 20 min) and Triton X-100 permeabilized (0.1%, 15min). The cells were incubated with ab110285 at 5 µg/ml for 2h at room temperature or overnight at 4°C. The secondary antibody was (red) Alexa Fluor® 594 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. 10% Goat serum was used as the blocking agent for all blocking steps. DAPI was used to stain the cell nuclei (blue). Target protein locates mainly in mitochondria.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACADVL/VLCAD antibody [6A9AF2] (ab110285)

ab110285, at 1/250 dilution, staining ACADVL/VLCAD in formalin-fixed, paraffin-embedded human cerebellum tissue. Immunoactivity is most intense in neuronal cell bodies, most notably in the large Purkinje cells.



Immunoprecipitation - Anti-ACADVL/VLCAD antibody [6A9AF2] (ab110285)

ACADVL/VLCAD immunocaptured from 0.75mg of human liver mitochondria lysate /10ul antibody conjugated beads using ab110285.

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