


Anti-ACADS/SCAD antibody ab79169

2 Images

Overview

Product name	Anti-ACADS/SCAD antibody
Description	Rabbit polyclonal to ACADS/SCAD
Host species	Rabbit
Specificity	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Rat, Horse, Chicken, Cow, Pig, Orangutan 
Immunogen	Synthetic peptide corresponding to Human ACADS/SCAD aa 350 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as ab91440)
Positive control	Recombinant Human ACADS/SCAD protein (ab95383) can be used as a positive control in WB. This antibody gave a positive signal in the following human tissue lysates: liver; heart; skeletal muscle.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide

Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab79169 in the following tested applications.

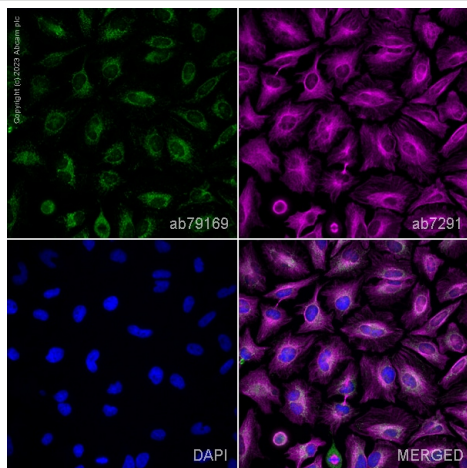
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 44 kDa (predicted molecular weight: 44 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

Target

Pathway	Lipid metabolism; mitochondrial fatty acid beta-oxidation.
Involvement in disease	Defects in ACADS are the cause of acyl-CoA dehydrogenase short-chain deficiency (ACADSD) [MIM:201470]. It is an autosomal recessive disorder resulting in acute acidosis and muscle weakness in infants, and a form of lipid-storage myopathy in adults.
Sequence similarities	Belongs to the acyl-CoA dehydrogenase family.
Cellular localization	Mitochondrion matrix.

Images

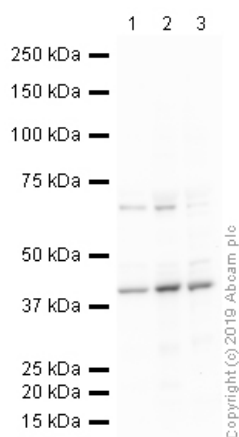


Immunocytochemistry/ Immunofluorescence - Anti-ACADS/SCAD antibody (ab79169)

ab79169 staining ACADS/SCAD in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab79169 at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue).

Also suitable in cells fixed with 4% paraformaldehyde (10 min).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Western blot - Anti-ACADS/SCAD antibody (ab79169)

All lanes : Anti-ACADS/SCAD antibody (ab79169) at 1 µg/ml

Lane 1 : Human liver

Lane 2 : Human heart

Lane 3 : Human skeletal muscle

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Predicted band size: 44 kDa

Observed band size: 44,68 kDa

Exposure time: 1 minute

Blocking buffer: 2% BSA

Gel type: MOPS

Exposure Time: 1 Minute

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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