

Rabbit ACADS/SCAD Polyclonal Antibody | anti-ACADS antibody

Anti-ACADS/SCAD Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125738	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

ACADS/SCAD; Polyclonal Antibody; Anti-ACADS/SCAD Antibody; ACADS; Short-chain specific acyl-CoA dehydrogenase; mitochondrial; SCAD; EC 1. 3. 8. 1; Butyryl-CoA dehydrogenase; acyl-CoA dehydrogenase short chain; anti-ACADS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for ACADS/SCAD detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-ACADS antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human ACADS/SCAD (EIQLVIAGHLLRSYRS).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 2. IF analysis of ACADS/SCAD using anti-ACADS/SCAD antibody (AAA125738).ACADS/SCAD was detected in immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-ACADS/SCAD Antibody (AAA125738) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of ACADS/SCAD using anti-ACADS/SCAD antibody (AAA125738).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human A549 whole cell lysatesLane 3: human U87 whole cell lysatesLane 4: human HepG2 whole cell lysatesLane 5: human Hek293 whole cell lysatesLane 6: rat liver tissue lysatesLane 7: rat kidney tissue lysatesLane 8: mouse liver tissue lysatesLane 9: mouse kidney tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-ACADS/SCAD antigen affinity purified polyclonal antibody (Catalog # AAA125738) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ACADS/SCAD at approximately 44KD. The expected band size for ACADS/SCAD is at 44KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ACADS antibody	Acyl-CoA dehydrogenase, C-2 to C-3 short chain is an enzyme that in humans is encoded by the ACADS gene. This gene encodes a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations in this gene have been associated with short-chain acyl-CoA dehydrogenase (SCAD) deficiency. Alternative splicing results in two variants which encode different isoforms.
References	1. Corydon, M. J., Andresen, B. S., Bross, P., Kjeldsen, M., Andreasen, P. H., Eiberg, H., Kolvraa, S., Gregersen, N. Structural organization of the human short-chain acyl-CoA dehydrogenase gene. Mammalian Genome 8: 922-926, 1997. 2. Corydon, M. J., Vockley, J., Rinaldo, P., Rhead, W. J., Kjeldsen, M., Winter, V., Riggs, C., Babovic-Vuksanovic, D., Smeitink, J., De Jong, J., Levy, H., Sewell, A. C., Roe, C., Matern, D., Dasouki, M., Gregersen, N. Role of common gene variations in the molecular pathogenesis of short-chain acyl-CoA dehydrogenase deficiency. Pediat. Res. 49: 18-23, 2001. 3. Gregersen, N., Winter, V. S., Corydon, M. J., Corydon, T. J., Rinaldo, P., Ribes, A., Martinez, G., Bennett, M. J., Vianey-Saban, C., Bhala, A., Hale, D. E., Lehnert, W., Kmoch, S., Roig, M., Riudor, E., Eiberg, H., Andresen, B. S., Bross, P., Bolund, L. A., Kolvraa, S. Identification of four new mutations in the short-chain acyl-CoA dehydrogenase (SCAD) gene in two patients: one of the variant alleles, 511C-T, is present at an unexpectedly high frequency in the general population, as was the case for 625G-A, together conferring susceptibility to ethylmalonic aciduria. Hum. Molec. Genet. 7: 619-627, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	113019
NCBI GeneID	35
UniProt Accession #	P16219; P78331
Molecular Weight	412
NCBI Official Full Name	Short-chain specific acyl-CoA dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	acyl-CoA dehydrogenase, C-2 to C-3 short chain
NCBI Official Symbol	ACADS
NCBI Official Synonym Symbols	SCAD; ACAD3

NCBI Protein Information	short-chain specific acyl-CoA dehydrogenase, mitochondrial; butyryl-CoA dehydrogenase; unsaturated acyl-CoA reductase; acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain; mitochondrial short-chain specific acyl-CoA dehydrogenase
UniProt Protein Name	Short-chain specific acyl-CoA dehydrogenase, mitochondrial
UniProt Gene Name	ACADS
UniProt Synonym Gene Names	SCAD
UniProt Entry Name	ACADS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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