

Mouse Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS) ELISA Kit | ACADS elisa kit

Mouse Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS)(Sandwich ELISA) ELISA Kit

CATALOG #
AAA152549

REACTIVITY
Mouse

PRODUCT SYNONYMS

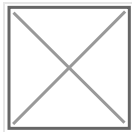
Acyl Coenzyme A Dehydrogenase; C2-To-C3 Short Chain (ACADS); Mouse Acyl Coenzyme A Dehydrogenase; C2-To-C3 Short Chain (ACADS)(Sandwich ELISA) ELISA Kit; ELISA Kit for Acyl Coenzyme A Dehydrogenase; SCAD; ACAD3; Butyryl-CoA dehydrogenase; Short-chain specific acyl-CoA dehydrogenase; mitochondrial; ACADS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Detects protein (regular version) Reactive with Mouse ACADS/Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain This assay has high sensitivity and excellent specificity for detection of Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS). No significant cross-reactivity or interference between Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS) and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Method	Colormetric
Sensitivity	0.067ng/mL
Assay Time	3h
Sample Size	100uL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Acyl Coenzyme A Dehydrogenase, C2-To-C3 Short Chain (ACADS) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100uL standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50uL Stop Solution. Read at 450nm immediately.
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf-life: one year The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)
Typical Standard Curve for ACADS ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	31982522
NCBI GeneID	11409
NCBI Accession #	NP_031409.2
NCBI GenBank Nucleotide #	NM_007383.3
UniProt Accession #	Q07417; Q91W85
Molecular Weight	44,890 Da
NCBI Official Full Name	short-chain specific acyl-CoA dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	acyl-Coenzyme A dehydrogenase, short chain
NCBI Official Symbol	Acads
NCBI Official Synonym Symbols	Bcd1; SCAD; Bcd-1; Hdlq8; A1196007
NCBI Protein Information	short-chain specific acyl-CoA dehydrogenase, mitochondrial; butyryl-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_MOUSE

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.