Mouse Acyl Coenzyme A Synthetase Long Chain Family, Member 3 (ACSL3) ELISA Kit | ACSL3 elisa kit

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CATALOG #	REACTIVITY
AAA190182	**Mouse**

PRODUCT SYNONYMS

Acyl Coenzyme A Synthetase Long Chain Family; Member 3 (ACSL3); Mouse Acyl Coenzyme A Synthetase Long Chain Family; Member 3 (ACSL3) ELISA Kit; ACSL3 ELISA kit (Mouse); Member 3; ACS3; FACL3; LACS3; Fatty-Acid-Coenzyme A Ligase; Long-Chain 3; Long-chain acyl-CoA synthetase 3; ACSL3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Acyl Coenzyme A Synthetase Long Chain Family, Member 3 (ACSL3). No significant cross-reactivity or interference between Acyl Coenzyme A Synthetase Long Chain Family, Member 3 (ACSL3) and analogues was observed. Reactive with Mouse ACSL3/Acyl Coenzyme A Synthetase Long Chain Family, Member 3
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.055ng/mL
Sample Size	100uL
Detection Method	Colormetric
Featured Series	SE kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Acyl Coenzyme A Synthetase Long Chain Family, Member 3 (ACSL3) 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 Synthetase Long Chain Family, Member 3 (ACSL3) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (regular version)
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.

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 Synthetase Long Chain Family, Member 3 (ACSL3). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Acyl Coenzyme A Synthetase Long Chain Family, Member 3 (ACSL3). 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 Synthetase Long Chain Family, Member 3 (ACSL3), 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 Synthetase Long Chain Family, Member 3 (ACSL3) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) 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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	209977074
NCBI GeneID	74205
NCBI Accession #	NP_001028778.2
NCBI GenBank Nucleotide #	NM_001033606.2
UniProt Accession #	Q9CZW4; Q8K1J7
Molecular Weight	80,492 Da
NCBI Official Full Name	long-chain-fatty-acid--CoA ligase 3 isoform a
NCBI Official Synonym Full Names	acyl-CoA synthetase long-chain family member 3
NCBI Official Symbol	Acsl3
NCBI Official Synonym Symbols	Acs3; Facl3; C85929; Pro2194; 2610510B12Rik
NCBI Protein Information	long-chain-fatty-acid--CoA ligase 3; LACS 3; long-chain acyl-CoA synthetase 3; fatty acid Coenzyme A ligase, long chain 3
UniProt Protein Name	Long-chain-fatty-acid--CoA ligase 3
UniProt Gene Name	**Acsl3**
UniProt Synonym Gene Names	Acs3; Facl3; LACS 3
UniProt Entry Name	ACSL3_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.

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Online datasheet: https://stage.aaabiotech.com/mouse-elisa-kits/acyl-coenzyme-a-synthetase-long-chain-family-member-3-acsl3/190182