

Rat Long-chain specific acyl-CoA dehydrogenase, mitochondrial (ACADL) ELISA Kit | ACADL elisa kit

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CATALOG #
AAA245614

REACTIVITY
Rat

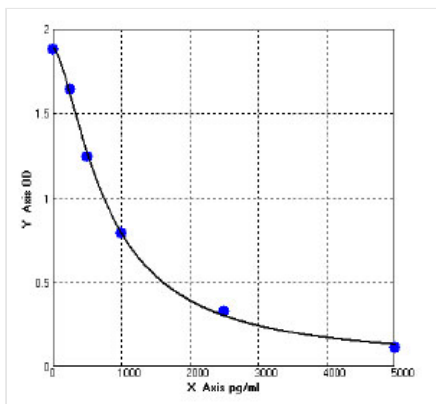
PRODUCT SYNONYMS

Long-chain specific acyl-CoA dehydrogenase; mitochondrial (ACADL); Rat Long-chain specific acyl-CoA dehydrogenase; mitochondrial (ACADL) ELISA Kit; ACADL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ACADL. No significant cross-reactivity or interference between ACADL and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ACADL and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ACADL elisa kit	Intended Uses: This ACADL ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat ACADL. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: ACADL ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ACADL antibody and an ACADL-HRP conjugate. The assay sample and buffer are incubated together with ACADL-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ACADL concentration since ACADL from samples and ACADL-HRP conjugate compete for the anti-ACADL antibody binding site. Since the number of sites is limited, as more sites are occupied by ACADL from the sample, fewer sites are left to bind ACADL-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ACADL concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4501857
NCBI GeneID	33
NCBI Accession #	NP_001599.1
NCBI GenBank Nucleotide #	NM_001608.3
Molecular Weight	47,656 Da
NCBI Official Full Name	long-chain specific acyl-CoA dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	acyl-CoA dehydrogenase, long chain
NCBI Official Symbol	ACADL
NCBI Official Synonym Symbols	LCAD; ACAD4
NCBI Protein Information	long-chain specific acyl-CoA dehydrogenase, mitochondrial; acyl-Coenzyme A dehydrogenase, long chain
UniProt Protein Name	Long-chain specific acyl-CoA dehydrogenase, mitochondrial
UniProt Gene Name	ACADL
UniProt Synonym Gene Names	LCAD
UniProt Entry Name	ACADL_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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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/long-chain-specific-acyl-coa-dehydrogenase-mitochondrial-acadl/245614>