

Human ATP-Citrate Synthase (ACLY) ELISA Kit | ACLY elisa kit

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CATALOG #
AAA331071

REACTIVITY
Human

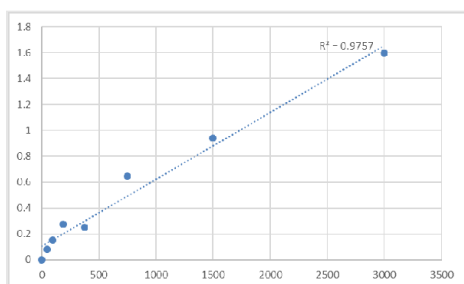
PRODUCT SYNONYMS

ATP-Citrate Synthase (ACLY); Human ATP-Citrate Synthase (ACLY) ELISA Kit; ACL; ATPCL; CLATP; OTTHUMP00000164773; ACLY elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human ATP-citrate synthase (ACLY) ELISA Kit has high sensitivity and excellent specificity for detection of Human ACLY. No significant cross-reactivity or interference between Human ACLY and analogues was observed.
Sequence Length	1101
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human ATP-citrate synthase (ACLY) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACLY elisa kit	Description: This Human ATP-citrate synthase (ACLY) ELISA Kit employs a two-site sandwich ELISA to quantitate ACLY in samples. An antibody specific for ACLY has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACLY present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACLY is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ACLY bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: ATP citrate lyase is an enzyme that represents an important step in fatty acid biosynthesis.ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer of apparently identical subunits. The product, acetyl-CoA, serves several important biosynthetic pathways, including lipogenesis and cholesterologenesis. It is activated in by insulin. The enzyme is composed of two subunits in green plants, species of fungi, Glaucophytes, Chlamydomonas, and prokaryotes. Animal ACL enzymes are homomeric, presumably an evolutionary fusion of the ACLA and ACLB genes probably occurred early in the evolutionary history of this kingdom.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	38569421
NCBI GeneID	47
NCBI Accession #	NP_001087.2
NCBI GenBank Nucleotide #	NP_001087.2
UniProt Accession #	P53396
NCBI Official Full Name	ATP-citrate synthase isoform 1
NCBI Official Synonym Full Names	ATP citrate lyase
NCBI Official Symbol	ACLY
NCBI Official Synonym Symbols	ACL; ATPCL; CLATP
NCBI Protein Information	ATP-citrate synthase
UniProt Protein Name	ATP-citrate synthase
UniProt Gene Name	ACLY
UniProt Synonym Gene Names	ACL
UniProt Entry Name	ACLY_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://www.aaabiotech.com/human-elisa-kits/atp-citrate-synthase-acly/331071>