Human Lysophosphatidylcholine Acyltransferase 1 (LPCAT1) ELISA Kit | LPCAT1 elisa kit

Human Lysophosphatidylcholine Acyltransferase 1 (LPCAT1)(Sandwich ELISA) ELISA Kit

CATALOG #	REACTIVITY	APPLICATIONS
AAA189590	**Human**	**ELISA**

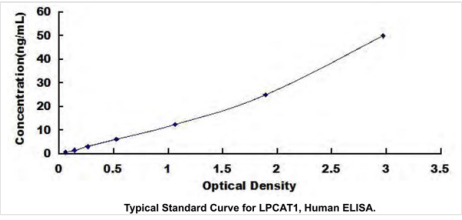
PRODUCT SYNONYMS

Lysophosphatidylcholine Acyltransferase 1 (LPCAT1); Human Lysophosphatidylcholine Acyltransferase 1 (LPCAT1)(Sandwich ELISA) ELISA Kit; High Sensitive ELISA Kit for Lysophosphatidylcholine Acyltransferase 1 (LPCAT1); LPCAT1/Lysophosphatidylcholine Acyltransferase 1; AYTL2; PFAAP3; Acyltransferase Like 2; 1-alkylglycerophosphocholine O-acetyltransferase; Phosphonoformate immuno-associated protein 3; Acetyl-CoA:lyso-PAF acetyltransferase; LPCAT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of LPCAT1. No significant cross-reactivity or interference between LPCAT1 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	< 0.27ng/mL
Applicable Applications for LPCAT1 elisa kit	ELISA
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LPCAT1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level LPCAT1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/ -20 degree C for long-term (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)

ADDITIONAL INFORMATION

Related Product Information for LPCAT1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to LPCAT1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to LPCAT1. 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 LPCAT1, 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 LPCAT1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of LPCAT1 in human serum, plasma, tissue homogenates and other biological fluids.
Product Categories/Family for LPCAT1 elisa kit	Tumor immunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	33946291
NCBI GeneID	79888
NCBI Accession #	NP_079106.3
NCBI GenBank Nucleotide #	NM_024830.3
UniProt Accession #	Q8NF37; Q1HAQ1; Q7Z4G6; Q8N3U7; Q8WUL8; Q9GZW6
Molecular Weight	59,151 Da
NCBI Official Full Name	lysophosphatidylcholine acyltransferase 1
NCBI Official Synonym Full Names	lysophosphatidylcholine acyltransferase 1
NCBI Official Symbol	LPCAT1
NCBI Official Synonym Symbols	AYTL2; lpcat; PFAAP3
NCBI Protein Information	lysophosphatidylcholine acyltransferase 1; LPCAT-1; lysoPAFAT; LPC acyltransferase 1; acyltransferase like 2; acyltransferase-like 2; lysoPC acyltransferase 1; lyso-PAF acetyltransferase; regulated by phosphonoformate; acetyl-CoA:lyso-PAF acetyltransferas
UniProt Protein Name	Lysophosphatidylcholine acyltransferase 1
UniProt Gene Name	**LPCAT1**
UniProt Synonym Gene Names	AYTL2; PFAAP3; LPC acyltransferase 1; LPCAT-1; LysoPC acyltransferase 1; Acetyl-CoA:lyso-PAF acetyltransferase; Lyso-PAF acetyltransferase; LysoPAFAT
UniProt Entry Name	PCAT1_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/human-elisa-kits/lysophosphatidylcholine-acyltransferase-1-lpcat1/189590