Human Lysophosphatidylcholine acyltransferase 1 (LPCAT1) ELISA Kit

Catalog No: #EK10060

Package Size: #EK10060-1 48T #EK10060-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Lysophosphatidylcholine acyltransferase 1 (LPCAT1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AYTL2; FLJ12443; FLJ41609; PFAAP3; lpcat; LPC acyltransferase|acyl-CoA:lysophosphatidylcholine acyltransferase 1|acyltransferase like 2|phosphonoformate immuno-associated protein 3|regulated by phos
Accession No.	Q8NF37
Uniprot	Q8NF37
GeneID	79888;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:3.12-200 ng/mL

Sensitivity:1.14 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LPCAT1 in samples. An antibody specific for LPCAT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLPCAT1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LPCAT1 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 LPCAT1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Lysophosphatidylcholine (LPC) acyltransferase (LPCAT) catalyzes the conversion of LPC to phosphatidylcholine (PC) in the remodeling pathway of PC biosynthesis.
deduced 534-amino acid mouse and human proteins contain 3 transmembrane domains, several motifs conserved in members of the LPCAT family, a putative EF hand domain, and a C-terminal endoplasmic reticulum (ER) retention signal. They share about 88% amino acid identity. Real-time RT-PCR of mouse tissues showed that Lpcat1 was expressed at highest levels in lung, followed by spleen and brain. Other tissues had low Lpcat1 levels. Confocal microscopy detected epitope-tagged Lpcat1 mainly in the ER and Golgi of transfected cells.

Note: This product is for in vitro research use only