Mouse Lysophosphatidylcholine acyltransferase 2 (LPCAT2) ELISA Kit

Catalog No: #EK10058

Package Size: #EK10058-1 48T #EK10058-2 96T

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

Description

Product Name	Mouse Lysophosphatidylcholine acyltransferase 2 (LPCAT2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	AYTL1; DKFZp686H22112; FLJ20481; LysoPAFAT; acetyl-CoA:lyso-PAF acetyltransferase|acyl-CoA:lysophosphatidylcholine acyltransferase 2|acyltransferase like 1|lyso-platelet-activating factor (PAF) acet
Accession No.	Q8BYI6
Uniprot	Q8BYI6
GeneID	270084;
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:0.312-20 ng/mL

Sensitivity:0.108 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 LPCAT2 in samples. An antibody specific for LPCAT2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLPCAT2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LPCAT2 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 LPCAT2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:LPCAT2 encodes a member of the lysophospholipid acyltransferase family. The encoded enzyme may function in two ways: to catalyze the biosynthesis of platelet-activating factor (1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine) from 1-O-alkyl-sn-glycero-3-phosphocholine, and to catalyze the synthesis of glycerophospholipid precursors from arachidonyl-CoA and lysophosphatidylcholine.

The protein may function in membrane biogenesis and production of platelet-activating factor in inflammatory cells. The deduced full-length protein

contains an N-terminal catalytic domain and 2 cation-binding EF-hand motifs in its C-terminal region.Epitope-tagged Lpcat2 was expressed mainly in the ER and Golgi of transfected Chinese hamster ovary cells.

Note: This product is for in vitro research use only