

# Human Lysophospholipid acyltransferase LPCAT4 (LPCAT4) ELISA Kit

Catalog No: #EK10057

Orders: order@signalwayantibody.com

Package Size: #EK10057-1 48T #EK10057-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Lysophospholipid acyltransferase LPCAT4 (LPCAT4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AGPAT7; AYTL3; FLJ10257; LPAAT-eta; LPEAT2; 1-acylglycerol-3-phosphate O-acyltransferase 7 (lysophosphatidic acid acyltransferase; eta) PLSC domain containing protein acyl-CoA:lysophosphatidylethano
Accession No.	Q643R3
Uniprot	Q643R3
GeneID	254531;
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:0.78-50 ng/mL

Sensitivity:0.34 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 LPCAT4 in samples. An antibody specific for LPCAT4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLPCAT4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LPCAT4 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 LPCAT4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Members of the 1-acylglycerol-3-phosphate O-acyltransferase (EC 2.3.1.51) family, such as AGPAT7, catalyze the conversion of lysophosphatidic acid (LPA) to phosphatidic acid (PA), a precursor in the biosynthesis of all glycerolipids. Both LPA and PA are involved in signal transduction.The deduced 524-amino acid protein has a calculated molecular mass of 57.2 kD. It has a phosphate acyltransferase domain that shares 15 to 29% amino acid identity with the acyltransferase domains of other AGPATs and contains all the residues essential for acyltransferase activity. AGPAT7 expression in uterus, thymus, pancreas, skeletal muscle, bladder, stomach, lung, and testis. Fluorescence-tagged AGPAT7 showed a perinuclear and punctate distribution in transfected HeLa cells and colocalized with an endoplasmic reticulum marker.

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Note: This product is for in vitro research use only