

Human Lysophospholipid acyltransferase LPCAT4 (LPCAT4) ELISA Kit

Catalog No: #EK10057

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

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 | <p>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.</p> <p>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).</p> |

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.

Note: This product is for in vitro research use only