

Human Lysophospholipid Acyltransferase LPCAT4 (LPCAT4) ELISA Kit | LPCAT4 elisa kit

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CATALOG #
AAA331936

REACTIVITY
Human

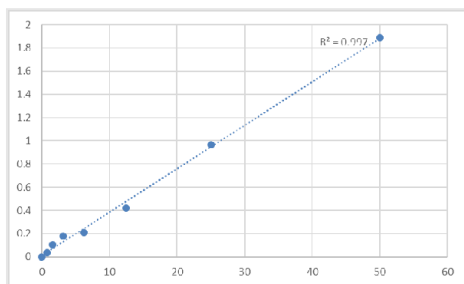
PRODUCT SYNONYMS

Lysophospholipid Acyltransferase LPCAT4 (LPCAT4); Human Lysophospholipid Acyltransferase LPCAT4 (LPCAT4) ELISA Kit; LPCAT4; AGPAT7; AYTL3; FLJ10257; LPAAT-eta; LPEAT2; 1-acylglycerol-3-phosphate O-acyltransferase 7 (lysophosphatidic acid acyltransferase; eta); PLSC domain containing protein; acyl-CoA:lysophosphatidylethano; LPCAT4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Lysophospholipid acyltransferase LPCAT4 (LPCAT4) ELISA Kit has high sensitivity and excellent specificity for detection of Human LPCAT4. No significant cross-reactivity or interference between Human LPCAT4 and analogues was observed.
Sequence Length	524
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Lysophospholipid acyltransferase LPCAT4 (LPCAT4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for LPCAT4 elisa kit	Description: This Human Lysophospholipid acyltransferase LPCAT4 (LPCAT4) ELISA Kit 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 any LPCAT4 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. Background: 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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NCBI AND UNIPROT INFORMATION

NCBI GI #	62203469
NCBI GeneID	254531
UniProt Accession #	Q643R3
NCBI Official Full Name	Lysophosphatidylcholine acyltransferase 4
NCBI Official Synonym Full Names	lysophosphatidylcholine acyltransferase 4
NCBI Official Symbol	LPCAT4
NCBI Official Synonym Symbols	AYTL3; AGPAT7; LPEAT2; LPAAT-eta
NCBI Protein Information	lysophospholipid acyltransferase LPCAT4
UniProt Protein Name	Lysophospholipid acyltransferase LPCAT4
UniProt Gene Name	LPCAT4
UniProt Synonym Gene Names	AGPAT7; AYTL3; LPEAT2; 1-AGP acyltransferase 7; 1-AGPAT 7
UniProt Entry Name	LPCT4_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/lysophospholipid-acyltransferase-lpcat4-lpcat4/331936>