

Human Lysophospholipid Acyltransferase 5 (LPCAT3) ELISA Kit | LPCAT3 elisa kit

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CATALOG #
AAA331937

REACTIVITY
Human

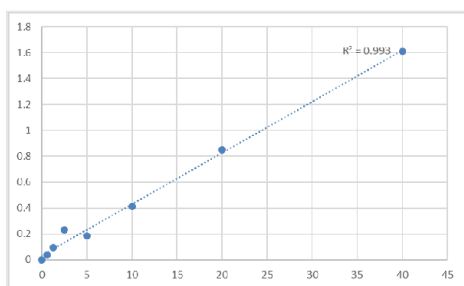
PRODUCT SYNONYMS

Lysophospholipid Acyltransferase 5 (LPCAT3); Human Lysophospholipid Acyltransferase 5 (LPCAT3) ELISA Kit; LPCAT3; C3F; MBOAT5; OACT5; nesso; O-acyltransferase (membrane bound) domain containing 5; membrane bound O-acyltransferase domain containing 5; putative protein similar to nesso; LPCAT3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Lysophospholipid acyltransferase 5 (LPCAT3) ELISA Kit has high sensitivity and excellent specificity for detection of Human LPCAT3. No significant cross-reactivity or interference between Human LPCAT3 and analogues was observed.
Sequence Length	487
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 5 (LPCAT3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for LPCAT3 elisa kit	Description: This Human Lysophospholipid acyltransferase 5 (LPCAT3) ELISA Kit employs a two-site sandwich ELISA to quantitate LPCAT3 in samples. An antibody specific for LPCAT3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LPCAT3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LPCAT3 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 LPCAT3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The deduced 487-amino acid human and mouse MBOAT5 proteins contain 11 predicted transmembrane domains and share 88% amino acid identity. Human MBOAT5 shares 35% amino acid identity with Drosophila nesso. The deduced protein contains 10 putative transmembrane domains and a C-terminal endoplasmic reticulum (ER) retention motif (KKxx). RT-PCR detected ubiquitous Lpcat3 expression, with highest level in testis. Lpcat3 colocalized with an ER marker protein in transfected Chinese hamster ovary cells. Knockdown of Lpcat3 in mouse melanoma cells with small interfering RNA significantly reduced cellular acyltransferase activity toward endogenous lysophosphatidylcholine, lysophosphatidylethanolamine, and lysophosphatidylserine.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	42542394
NCBI GeneID	10162
NCBI Accession #	NP_005759.4
NCBI GenBank Nucleotide #	NP_005759.4
UniProt Accession #	Q6P1A2
NCBI Official Full Name	lysophospholipid acyltransferase 5
NCBI Official Synonym Full Names	lysophosphatidylcholine acyltransferase 3
NCBI Official Symbol	LPCAT3
NCBI Official Synonym Symbols	C3F; LPCAT; LPSAT; OACT5; nesso; MBOAT5; LPLAT 5
NCBI Protein Information	lysophospholipid acyltransferase 5
UniProt Protein Name	Lysophospholipid acyltransferase 5
UniProt Gene Name	LPCAT3
UniProt Synonym Gene Names	MBOAT5; OACT5; LPLAT 5; LPCAT; Lyso-PC acyltransferase; Lyso-PC acyltransferase 3; LPSAT; Lyso-PS acyltransferase; O-acyltransferase domain-containing protein 5
UniProt Entry Name	MBOA5_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.