

Rabbit LPCAT1 Polyclonal Antibody | anti-LPCAT1 antibody

LPCAT1 Antibody

CATALOG # AAA322860	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

LPCAT1; Polyclonal Antibody; LPCAT1 Antibody; 1 acylglycerophosphocholine O acyltransferase; 1 alkylglycerophosphocholine O acetyltransferase; 1-acylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase; Acetyl CoA:lyso PAF acetyltransferase; Acetyl CoA:lyso platelet activating factor acetyltransferase; Acetyl-CoA:lyso-PAF acetyltransferase; Acetyl-CoA:lyso-platelet-activating factor acetyltransferase; Acyl CoA:lysophosphatidylcholine acyltransferase 1; Acyltransferase like 2; Acyltransferase-like 2; AGPAT10; AGPAT9; AYTL1; AYTL2; FLJ12443; FLJ41609; LPC acyltransferase 1; LPC acyltransferase; lpcat; LPCAT-1; Lyso PAF acetyltransferase; Lyso-PAF acetyltransferase; LysoPAFAT; LysoPC acyltransferase 1; Lysophosphatidylcholine acyltransferase 1; PCAT1_HUMAN; PFAAP3; Phosphonoformate immuno associated protein 3; Phosphonoformate immuno-associated protein 3; anti-LPCAT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	LPCAT1 antibody detects endogenous levels of LPCAT1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	534
Applicable Applications for anti-LPCAT1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LPCAT1.
Subcellular Location	Endoplasmic Reticulum Membrane. Golgi Apparatus Membrane.
Predicted Cross Reactivity	Zebrafish, Bovine, Horse, Dog, Chicken
Similarity	Zebrafish (91%), Bovine (92%), Horse (100%), Dog (92%), Chicken (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of human lung tissue, using LPCAT1 antibody.



IHC (Immunohistochemistry)
AAA322860 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-LPCAT1 antibody	Function: Possesses both acyltransferase and acetyltransferase activities (PubMed:16864775, PubMed:21498505). Activity is calcium-independent (By similarity). Mediates the conversion of 1-acyl-sn-glycero-3-phosphocholine (LPC) into phosphatidylcholine (PC) (PubMed:21498505). Displays a clear preference for saturated fatty acyl-CoAs, and 1-myristoyl or 1-palmitoyl LPC as acyl donors and acceptors, respectively (PubMed:16704971). May synthesize phosphatidylcholine in pulmonary surfactant, thereby playing a pivotal role in respiratory physiology (PubMed:16864775). Involved in the regulation of lipid droplet number and size (PubMed:25491198). Similarity: The HXXXXD motif is essential for acyltransferase activity and may constitute the binding site for the phosphate moiety of the glycerol-3-phosphocholine. The di-lysine motif confers endoplasmic reticulum localization for type I membrane proteins. Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	33946291
NCBI GeneID	79888
NCBI Accession #	NP_079106.3
NCBI GenBank Nucleotide #	NM_024830.4
UniProt Accession #	Q8NF37; Q1HAQ1; Q7Z4G6; Q8N3U7; Q8WUL8; Q9GZW6
Molecular Weight	Observed: 59 kDa Predicted: 60 kDa
NCBI Official Full Name	lysophosphatidylcholine acyltransferase 1
NCBI Official Synonym Full Names	lysophosphatidylcholine acyltransferase 1
NCBI Official Symbol	LPCAT1
NCBI Official Synonym Symbols	AYTL2; lpcat; AGPAT9; PFAAP3; AGPAT10; LPCAT-1; lysoPAFAT
NCBI Protein Information	lysophosphatidylcholine acyltransferase 1
UniProt Protein Name	Lysophosphatidylcholine acyltransferase 1
UniProt Gene Name	LPCAT1
UniProt Synonym Gene Names	AYTL2; PFAAP3; LPC acyltransferase 1; LPCAT-1; LysoPC acyltransferase 1; Acetyl-CoA:lyso-PAF acetyltransferase; Lyso-PAF acetyltransferase; LysoPAFAT

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.