

Anti-LPCAT2 Antibody
Rabbit polyclonal antibody to LPCAT2
Catalog # AP60891**Specification**

Anti-LPCAT2 Antibody - Product Information

Application	WB
Primary Accession	Q7L5N7
Other Accession	Q8BYI6
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60208

Anti-LPCAT2 Antibody - Additional Information**Gene ID** 54947**Other Names**

AGPAT11; AYTL1; Lysophosphatidylcholine acyltransferase 2; LPC acyltransferase 2; LPCAT-2; LysoPC acyltransferase 2; 1-acylglycerol-3-phosphate O-acyltransferase 11; 1-AGP acyltransferase 11; 1-AGPAT 11; 1-acylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase; Acetyl-CoA:lyso-platelet-activating factor acetyltransferase; Acetyl-CoA:lyso-PAF acetyltransferase; Lyso-PAF acetyltransferase; LysoPAFAT; Acyltransferase-like 1; Lysophosphatidic acid acyltransferase alpha; LPAAT-alpha

Target/Specificity

Recognizes endogenous levels of LPCAT2 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-LPCAT2 Antibody - Protein Information**Name** LPCAT2**Synonyms** AGPAT11, AYTL1**Function**

Exhibits both acyltransferase and acetyltransferase activities (PubMed:17182612, PubMed:<a

[20363836](http://www.uniprot.org/citations/20363836), PubMed: [21498505](http://www.uniprot.org/citations/21498505)). Catalyzes the conversion of lysophosphatidylcholine (1-acyl-sn-glycero-3-phosphocholine or LPC) into phosphatidylcholine (1,2-diacyl-sn-glycero-3-phosphocholine or PC) (PubMed: [21498505](http://www.uniprot.org/citations/21498505)). Catalyzes the conversion 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone (PubMed: [20363836](http://www.uniprot.org/citations/20363836)). Involved in platelet-activating factor (PAF) biosynthesis by catalyzing the conversion of the PAF precursor, 1-O-alkyl-sn-glycero-3-phosphocholine (lyso-PAF) into 1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine (PAF) (PubMed: [17182612](http://www.uniprot.org/citations/17182612)). Also converts lyso-PAF to 1-O-alkyl-2-acyl-sn-glycero-3-phosphocholine (PC), a major component of cell membranes and a PAF precursor (By similarity). Under resting conditions, acyltransferase activity is preferred (By similarity). Upon acute inflammatory stimulus, acyltransferase activity is enhanced and PAF synthesis increases (By similarity). Involved in the regulation of lipid droplet number and size (PubMed: [25491198](http://www.uniprot.org/citations/25491198)).

Cellular Location

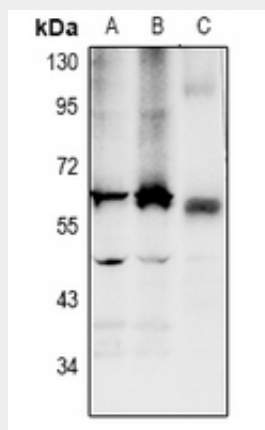
Endoplasmic reticulum membrane; Single-pass type II membrane protein. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q8BYI6}; Single-pass type II membrane protein. Cell membrane {ECO:0000250|UniProtKB:Q8BYI6}; Single-pass type II membrane protein. Lipid droplet

Anti-LPCAT2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-LPCAT2 Antibody - Images



Western blot analysis of LPCAT2 expression in HCT116 (A), DLD (B), mouse colon (C) whole cell lysates.

Anti-LPCAT2 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human LPCAT2. The exact sequence is proprietary.