

Anti-LPCAT2 Antibody

Rabbit polyclonal antibody to LPCAT2

Catalog # AP60891

Product Information

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

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

Protein Information

Name	LPCAT2
Synonyms	AGPAT11, AYTL1
Function	Exhibits both acyltransferase and acetyltransferase activities (PubMed: 17182612 , PubMed: 20363836 , PubMed: 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). 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](#)). 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](#)). 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, acetyltransferase activity is enhanced and PAF synthesis increases (By similarity). Involved in the regulation of lipid droplet number and size (PubMed:[25491198](#)).

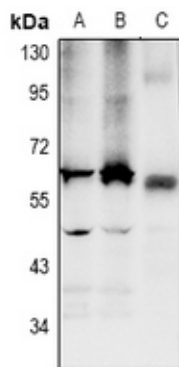
Cellular Location

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

Background

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

Images



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

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