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Lpcat2 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12782

Product Information

Application	WB
Primary Accession	Q8BYI6
Other Accession	NM_173014, NP_766602
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Mouse, Rat, Rabbit, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60254

Additional Information

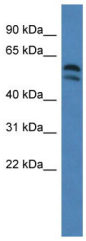
Gene ID	270084
Alias Symbol	A330042H22, Aytl1, LPCAT2, lpafat1, Aytl1a
Other Names	Lysophosphatidylcholine acyltransferase 2, LPC acyltransferase 2, LPCAT-2, LysoPC acyltransferase 2, 2.3.1.23, 1-acylglycerol-3-phosphate O-acyltransferase 11, 1-AGP acyltransferase 11, 1-AGPAT 11, 2.3.1.51, 1-acylglycerophosphocholine O-acyltransferase, 1-alkylglycerophosphocholine O-acetyltransferase, 2.3.1.67, Acetyl-CoA:lyso-platelet-activating factor acetyltransferase, Acetyl-CoA:lyso-PAF acetyltransferase, Lyso-PAF acetyltransferase, LysoPAFAT, Acyltransferase-like 1, Lpcat2, Aytl1, Aytl1a, Lpcat2a
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Lpcat2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Lpcat2 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Lpcat2
Synonyms	Aytl1, Aytl1a, Lpcat2a
Function	Exhibits both acyltransferase and acetyltransferase activities (PubMed:17182612, PubMed:18156367, PubMed:18285344). Activity is

	calcium-dependent (PubMed:17182612). 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:17182612, PubMed:18156367). 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 (By similarity). 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, PubMed:18285344). 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 (PubMed:17182612). Under resting conditions, acyltransferase activity is preferred (PubMed:17182612). Upon acute inflammatory stimulus, acetyltransferase activity is enhanced and PAF synthesis increases (PubMed:17182612). Involved in the regulation of lipid droplet number and size (By similarity).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q7L5N7}. Golgi apparatus membrane; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q7L5N7}. Cell membrane; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q7L5N7}. Lipid droplet {ECO:0000250|UniProtKB:Q7L5N7}
Tissue Location	Highest expression is found in resident macrophages and casein-induced neutrophils followed by skin, colon, spleen and thioglycollate-induced macrophages. Detected in erythroleukemic cells but not in reticulocytes.

Images



WB Suggested Anti-Lpcat2 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Thymus

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.