

# Lpcat2 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI12782

## Product Information

Application	WB
Primary Accession	<a href="#">Q8BYI6</a>
Other Accession	<a href="#">NM_173014</a> , <a href="#">NP_766602</a>
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, Ayt11, LPCAT2, lpafat1, Ayt11a
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, Ayt11, Ayt11a, 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	Ayt11, Ayt11a, Lpcat2a
Function	Exhibits both acyltransferase and acetyltransferase activities (PubMed: <a href="#">17182612</a> , PubMed: <a href="#">18156367</a> , PubMed: <a href="#">18285344</a> ). 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).

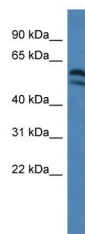
### Cellular Location

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'.