

Product Name: LPCAT2 Rabbit Polyclonal Antibody
Catalog #: APRab13389



Summary

Production Name	LPCAT2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	LPCAT2
Alternative Names	LPCAT2; AYTL1; Lysophosphatidylcholine acyltransferase 2; LPC acyltransferase 2; LPCAT-2; LysoPC acyltransferase 2; 1-acylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase; Acetyl-CoA:lyso-platelet-ac
Gene ID	54947.0
SwissProt ID	Q7L5N7.The antiserum was produced against synthesized peptide derived from human LPCAT2. AA range:321-370

Application

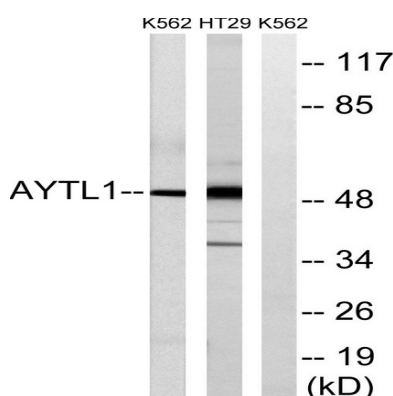
Dilution Ratio	WB 1:500-2000, IHC-P 1:50-300
Molecular Weight	50kDa

Background

This gene encodes a member of the lysophospholipid acyltransferase family. The encoded enzyme may function in two ways: to catalyze the biosynthesis of platelet-activating factor (1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine) from 1-O-alkyl-sn-glycero-3-phosphocholine, and to catalyze the synthesis of glycerophospholipid precursors from arachidonyl-CoA and lysophosphatidylcholine. The encoded protein may function in membrane biogenesis and production of platelet-activating factor in inflammatory cells. The enzyme may localize to the endoplasmic reticulum and the Golgi. [provided by RefSeq, Feb 2009],catalytic activity:Acetyl-CoA + 1-alkyl-sn-glycero-3-phosphocholine = CoA + 2-acetyl-1-alkyl-sn-glycero-3-phosphocholine.,catalytic activity:Acyl-CoA + 1-acyl-sn-glycero-3-phosphocholine = CoA + 1,2-diacyl-sn-glycero-3-phosphocholine.,domain:The HXXXXD motif is essential for acyltransferase activity.,enzyme regulation:Acetyltransferase activity is increased following acute inflammatory stimulation by lipopolysaccharide (LPS). Acyltransferase activity is unchanged.,function:Possesses both acyltransferase and acetyltransferase activities. Activity is calcium-dependent. 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). Also converts lyso-PAF to 1-alkyl-phosphatidylcholine (PC), a major component of cell membranes and a PAF precursor. Under resting conditions, acyltransferase activity is preferred. Upon acute inflammatory stimulus, acetyltransferase activity is enhanced and PAF synthesis increases.,pathway:Lipid metabolism; phospholipid metabolism.,similarity:Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family.,similarity:Contains 2 EF-hand domains.,

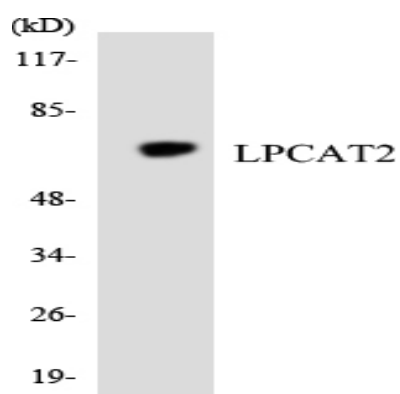
Research Area

Image Data



Western blot analysis of lysates from K562 and HT-29 cells, using LPCAT2 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from HT-29 cells using LPCAT2 antibody.

Note

For research use only.