

Rabbit Anti-LPCAT2/AF350 Conjugated antibody

SL10742R-AF350

Product Name	Anti-LPCAT2/AF350
Chinese Name	AF350 标记的磷脂酰基转移酶 2 抗体
Alias	1 acylglycerophosphocholine O acyltransferase; 1 alkylglycerophosphocholine O acetyltransferase; 1-acylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase; A330042H22; Acetyl CoA:lyso PAF acetyltransferase; Acetyl-CoA:lyso-PAF acetyltransferase; Acetyl-CoA:lyso-platelet-activating factor acetyltransferase; acyl CoA:lysophosphatidylcholine acyltransferase 2; Acyl-CoA:lysophosphatidylcholine acyltransferase member 1; Acyltransferase like 1A; Acyltransferase-like 1; AYTL1; Ayt1a; DKFZp686H22112; FLJ20481; lpafat1; LPC acyltransferase 2; LPCAT-2; LPCAT2; Lyso PAF acetyltransferase; Lyso platelet activating factor (PAF) acetyltransferase; Lyso-PAF acetyltransferase; LysoPAFAT; LysoPAFAT/LPCAT2; LysoPC acyltransferase 2; Lysophosphatidylcholine acyltransferase 2; OTTMUSP00000029641; PCAT2_HUMAN; RGD1563994.
Research Area	Cell biology Signal transduction Transporter
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Pig,Cow,Horse,Rabbit,Sheep) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	60kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human LPCAT2
Lsotype	IgG
Purification	affinity purified by Protein A

Storage Buffer 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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].

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.

Product Detail

Subcellular Location:

Endoplasmic reticulum membrane. Golgi apparatus membrane.

Similarity:

Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family. Contains 2 EF-hand domains.

Database links:

[Entrez Gene: 54947](#) Human

[Omim: 612040](#) Human

[SwissProt: Q7L5N7](#) Human

[Unigene: 460857](#) Human



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