

Rabbit Anti-LPCAT1 antibody

SL25412R

Product Name	LPCAT1
Chinese Name	溶血卵磷脂酰基转移酶 1 抗体 PCAT1_HUMAN; Lysophosphatidylcholine acyltransferase 1; AYTL2; PFAAP3; EC:2.3.1.23; LPC acyltransferase 1; LPCAT-1; LysoPC acyltransferase 1; 1-acylglycerol-3-phosphate O-acyltransferase. EC:2.3.1.51; 1-acylglycerophosphocholine O-acyltransferase;
Alias	1-alkenylglycerophosphocholine O-acyltransferase. EC:2.3.1.25; 1-alkylglycerophosphocholine O-acetyltransferase. EC:2.3.1.67; Acetyl-CoA:lyso-platelet-activating factor acetyltransferase (Acetyl-CoA:lyso-PAF acetyltransferase; Lyso-PAF acetyltransferase; LysoPAFAT);
Research Area	Cell biology immunology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human WB=1:500-2000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	59kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human LPCAT1:471-534/534
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Lysophosphatidylcholine (LPC) acyltransferase (LPCAT; EC 2.3.1.23) catalyzes the conversion of LPC to phosphatidylcholine (PC) in the remodeling pathway of PC biosynthesis (Nakanishi et al., 2006 [PubMed 16704971]).[supplied by OMIM, May 2008]

Function:

Possesses both acyltransferase and acetyltransferase activities. Activity is calcium-independent. Mediates the conversion of 1-acyl-sn-glycero-3-phosphocholine (LPC) into phosphatidylcholine (PC). Displays a clear preference for saturated fatty acyl-CoAs, and 1-myristoyl or 1-palmitoyl LPC as acyl donors and acceptors, respectively. May synthesize phosphatidylcholine in pulmonary surfactant, thereby playing a pivotal role in respiratory physiology.

Subcellular Location:

Endoplasmic reticulum membrane. Golgi apparatus membrane.

Similarity:

Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family.

Product Detail

SWISS:

Q8NF37

Gene ID:

79888

Database links:

[Entrez Gene: 79888](#) Human

[Entrez Gene: 210992](#) Mouse

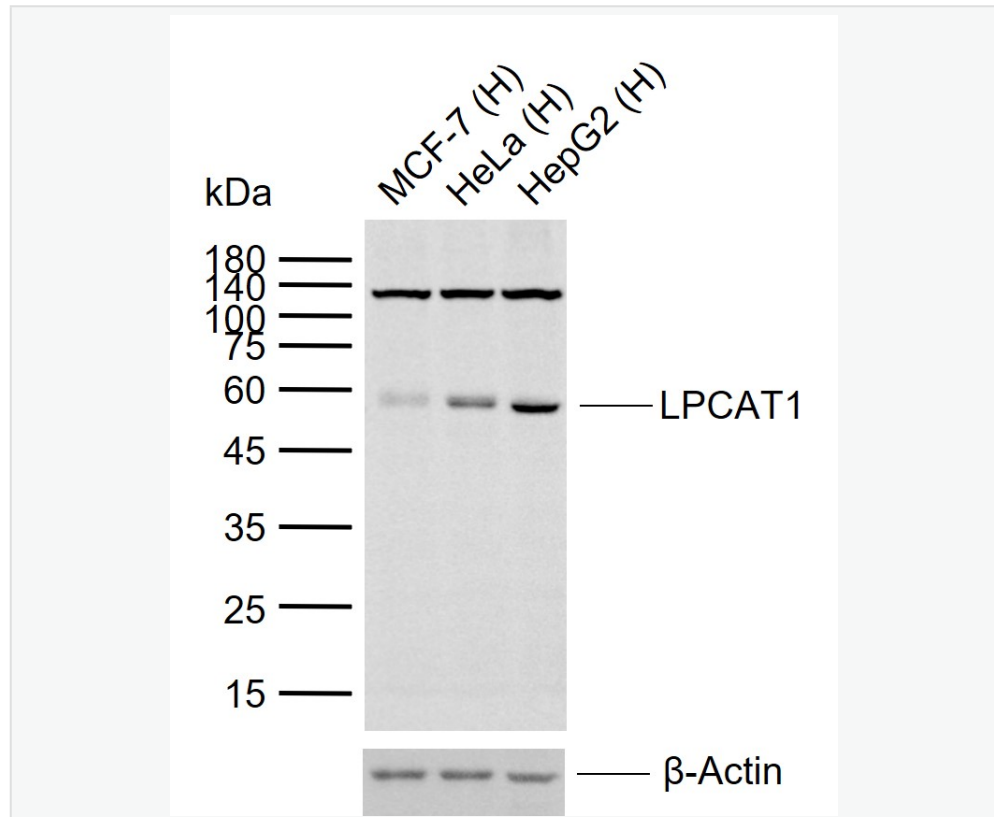
[Entrez Gene: 361467](#) Rat

[SwissProt: Q8NF37](#) Human

[SwissProt: Q3TFD2](#) Mouse

[SwissProt: Q1HAQ0](#) Rat

Product Picture



Sample:

Lane 1: Human MCF-7 cell lysates

Lane 2: Human HeLa cell lysates

Lane 3: Human HepG2 cell lysates

Primary: Anti-LPCAT1 (SL25412R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 59 kDa

Observed band size: 59 kDa