

Product Name: KD-Validated LPCAT1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00394

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:100-1:1,000; ICC 1:100-1:1,000; IHC-P 1:500-1:1,000
Molecular Weight	Calculated MW: 59.2kDa

Antigen Information

Gene Name	LPCAT1 LPCAT1; Lysophosphatidylcholine Acyltransferase 1; AGPAT10; AGPAT9; LPLAT8; AYTL2; Acetyl-CoA:Lyso-Platelet-Activating Factor Acetyltransferase; 1-Alkenylglycerophosphocholine O-Acyltransferase; 1-Alkylglycerophosphocholine O-Acetyltransferase; 1-Acylglycerophosphocholine O-Acyltransferase; 1-Acylglycerol-3-Phosphate O-Acyltransferase; Phosphonoformate Immuno-Associated Protein 3; Acetyl-CoA:Lyso-PAF Acetyltransferase; Lysophospholipid Acyltransferase 8; Lyso-PAF Acetyltransferase; LysoPC Acyltransferase 1; Acyltransferase-Like; LPC Acyltransferase 1; LysoPAFAT; FLJ12443; LPCAT-1; PFAAP3; Acyltransferase Like 2; EC 2.3.1.23; EC 2.3.1.51; EC 2.3.1.25; EC 2.3.1.67; Lpcat
Alternative Names	
Gene ID	79888.0

SwissProt ID Q8NF37
Immunogen Recombinant protein of human LPCAT1

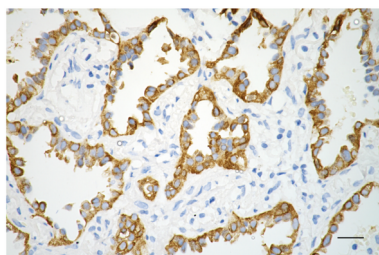
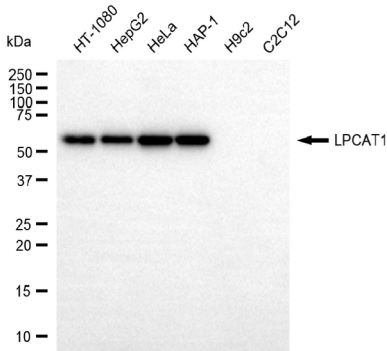
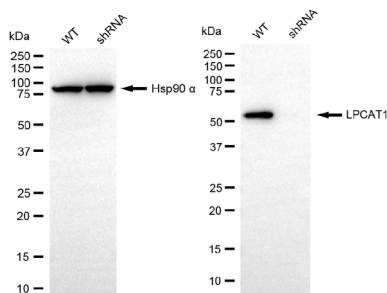
Background

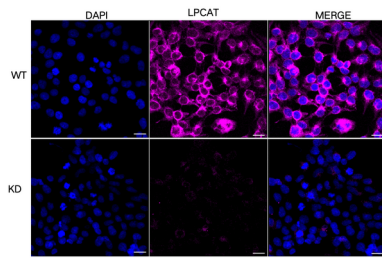
This gene encodes a member of the 1-acyl-sn-glycerol-3-phosphate acyltransferase family of proteins. The encoded enzyme plays a role in phospholipid metabolism, specifically in the conversion of lysophosphatidylcholine to phosphatidylcholine in the presence of acyl-CoA. This process is important in the synthesis of lung surfactant and platelet-activating factor (PAF). Elevated expression of this gene may contribute to the progression of oral squamous cell, prostate, breast, and other human cancers. [provided by RefSeq, Sep 2016]

Research Area

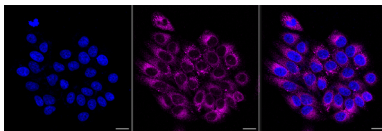
Metabolism, Cell Biology, Cancer

Image Data

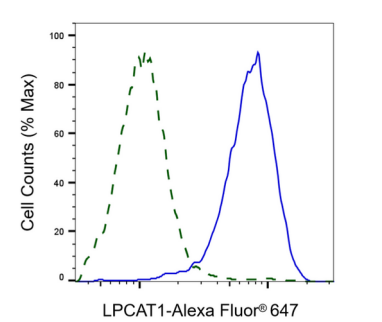




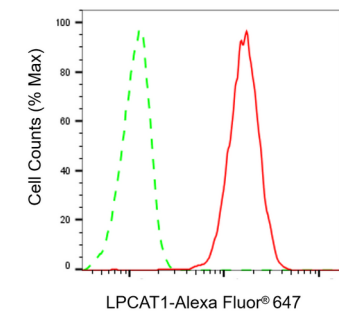
Immunocytochemical staining of HeLa cells using LPCAT1 antibody (KVA00394, 1:1,000), Top panel: wild-type (WT); Bottom panel: LPCAT1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; LPCAT1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm.



Immunocytochemical staining of HepG2 cells with LPCAT1 antibody (KVA00394, 1:1,000) . Nuclei were stained blue with DAPI; LPCAT1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μm.



Validation of LPCAT1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with LPCAT1 antibody (KVA00394, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of LPCAT1 expression in HepG2 cells using LPCAT1 antibody (KVA00394, 1:2,000). Green, isotype control; red, LPCAT1.