

For Research Use Only

# LPCAT4 Polyclonal antibody

Catalog Number: 17905-1-AP

Featured Product

5 Publications



## Basic Information

<b>Catalog Number:</b> 17905-1-AP	<b>GenBank Accession Number:</b> BC092463	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 254531	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q643R3	
<b>Isotype:</b> IgG	<b>Full Name:</b> lysophosphatidylcholine acyltransferase 4	
<b>Immunogen Catalog Number:</b> AG12281	<b>Calculated MW:</b> 524 aa, 57 kDa	
	<b>Observed MW:</b> 50-57 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** HT-29 cells, HeLa cells, HepG2 cells, mouse brain tissue, rat brain tissue

**IHC:** human intrahepatic cholangiocarcinoma tissue, human ovary cancer tissue

## Background Information

LPCAT4, also known as lysophosphatidylcholine acyltransferase 4, is an enzyme that plays a crucial role in lipid metabolism and membrane remodeling. It is a member of the 1-acylglycerol-3-phosphate O-acyltransferase (EC 2.3.1.51) family and is involved in the conversion of lysophosphatidic acid (LPA) to phosphatidic acid (PA), a precursor in the biosynthesis of all glycerolipids. Both LPA and PA are involved in signal transduction. The protein is predicted to be located in the membrane and is classified as a metabolic protein and enzyme. It is involved in biological processes such as lipid biosynthesis, lipid metabolism, phospholipid biosynthesis, and phospholipid metabolism.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chunhua Liu	36165217	FASEB J	WB
Helene Blanchard	24919816	Neurochem Res	WB
Kahori Shimizu	38226852	FASEB J	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

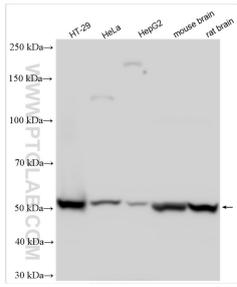
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

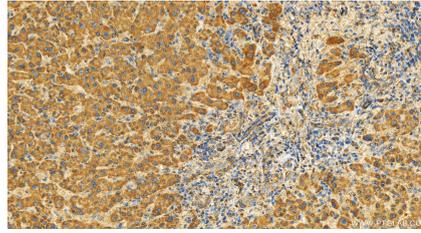
E: proteintech@ptglab.com  
W: ptglab.com

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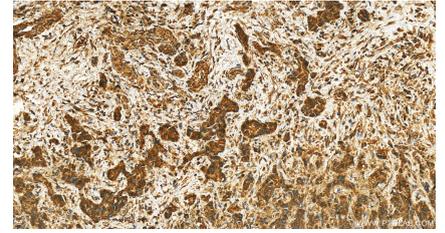
## Selected Validation Data



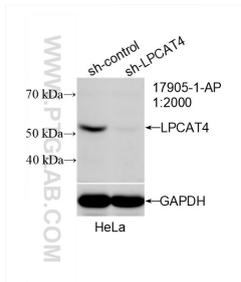
Various lysates were subjected to SDS PAGE followed by western blot with 17905-1-AP (LPCAT4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 17905-1-AP (LPCAT4 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 17905-1-AP (LPCAT4 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of LPCAT4 antibody (17905-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-LPCAT4 transfected HeLa cells.