

For Research Use Only

LPCAT4 Polyclonal antibody

Catalog Number: 17905-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number:

17905-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12281

GenBank Accession Number:

BC092463

GeneID (NCBI):

254531

UNIPROT ID:

Q643R3

Full Name:

lysophosphatidylcholine acyltransferase 4

Calculated MW:

524 aa, 57 kDa

Observed MW:

50-57 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

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

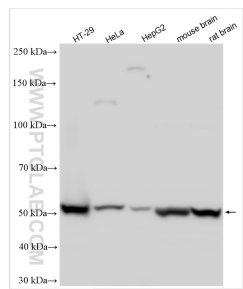
For technical support and original validation data for this product please contact:

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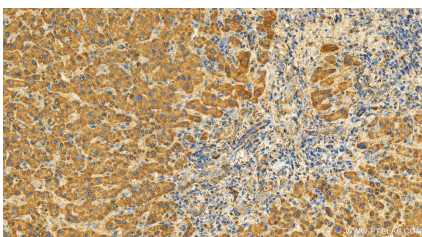
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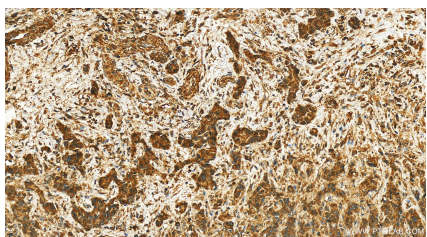
Selected Validation Data



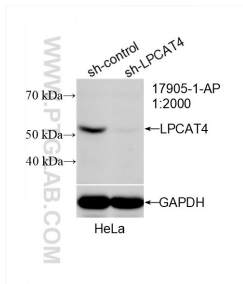
Various lysates were subjected to SDS PAGE followed by western blot with 17905-1-AP (LPCAT4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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.