

For Research Use Only

AGPAT4 Polyclonal antibody

Catalog Number: 16562-1-AP



Basic Information

Catalog Number:

16562-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9834

GenBank Accession Number:

BC020209

GeneID (NCBI):

56895

UNIPROT ID:

Q9NRZ5

Full Name:

1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta)

Calculated MW:

378 aa, 44 kDa

Observed MW:

44 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:300-1:1200

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, HepG2 cells, U-251 cells

IHC : human lung cancer tissue,

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

Background Information

AGPAT4 (Acylglycerophosphate acyltransferase 4), also known as LPAAT δ (Lysophosphatidic acid acyltransferase delta), is a protein expressed mainly in brain and in muscle. AGPAT4 is characterized as a mitochondrial lysophosphatidic acid acyltransferase that regulates brain levels of phosphatidylcholine (PC), phosphatidylethanolamine (PE), and phosphatidylinositol (PI) (PMID: 28807933). AGPAT4 is relatively abundant in murine renal white adipose tissue (WAT) and has been linked to the regulation of TAG production, the differentiation of adipocytes, and the modulation of various pathologies including lipodystrophy, diabetes, and hepatic steatosis (PMID: 28814640).

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

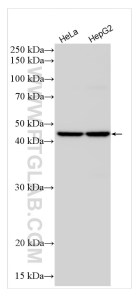
For technical support and original validation data for this product please contact:

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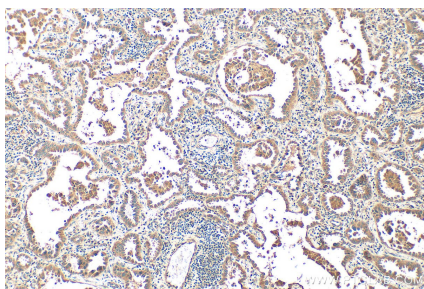
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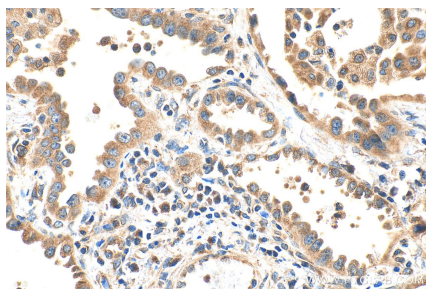
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16562-1-AP (AGPAT4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16562-1-AP (AGPAT4 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16562-1-AP (AGPAT4 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).