

For Research Use Only

# AGPAT4 Polyclonal antibody, PBS Only

Catalog Number: 16562-1-PBS



## Basic Information

**Catalog Number:**

16562-1-PBS

**Size:**

100ug, Concentration: 1 mg/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

## Applications

**Tested Applications:**

WB, IHC, Indirect ELISA

**Species Specificity:**

human

## Background Information

AGPAT4 (Acylglycerophosphate acyltransferase 4), also known as LPAAT $\delta$  (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 -80°C.

**Storage Buffer:**

PBS only, pH7.3

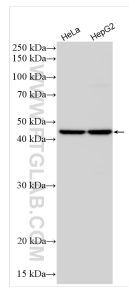
For technical support and original validation data for this product please contact:

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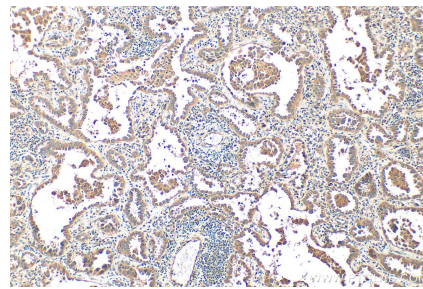
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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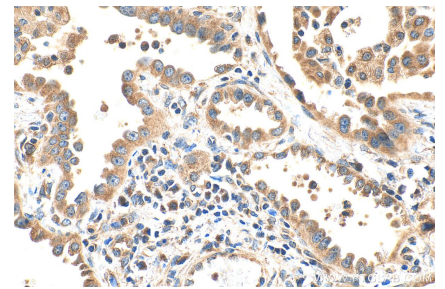
## Selected Validation Data



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. This data was developed using the same antibody clone with 16562-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 16562-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 16562-1-PBS in a different storage buffer formulation.