

LPAAT-δ Polyclonal Antibody

Catalog No: YT2582

Reactivity: Human; Mouse; Rat

Applications: WB;IHC

Target: LPAAT-δ

Fields: >>Glycerolipid metabolism;>>Glycerophospholipid metabolism;>>Metabolic

pathways;>>Phospholipase D signaling pathway

Gene Name: AGPAT4

Protein Name: 1-acyl-sn-glycerol-3-phosphate acyltransferase delta

Q9NRZ5

Q8K4X7

Human Gene Id: 56895

Human Swiss Prot

No:

Mouse Gene Id: 68262

Mouse Swiss Prot

No:

Rat Gene Id: 170919

Rat Swiss Prot No: Q924S1

Immunogen: The antiserum was produced against synthesized peptide derived from human

AGPAT4. AA range:151-200

Specificity: LPAAT-δ Polyclonal Antibody detects endogenous levels of LPAAT-δ protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source : Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000;IHC 1:50-300

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 44kD

Cell Pathway: Glycerolipid metabolism;Glycerophospholipid metabolism;Ether lipid

metabolism;

Background: This gene encodes a member of the 1-acylglycerol-3-phosphate O-

acyltransferase family. This integral membrane protein converts lysophosphatidic acid to phosphatidic acid, the second step in de novo phospholipid biosynthesis.

[provided by RefSeq, Jul 2008],

Function: catalytic activity:Acyl-CoA + 1-acyl-sn-glycerol 3-phosphate = CoA + 1,2-diacyl-

sn-glycerol 3-phosphate.,domain:The HXXXXD motif is essential for

acyltransferase activity and may constitute the binding site for the phosphate moiety of the glycerol-3-phosphate.,function:Converts lysophosphatidic acid (LPA) into phosphatidic acid by incorporating an acyl moiety at the sn-2 position of the glycerol backbone.,pathway:Phospholipid metabolism; CDP-diacylglycerol

biosynthesis; CDP-diacylglycerol from sn-glycerol 3-phosphate: step

2/3., similarity: Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase

family.,

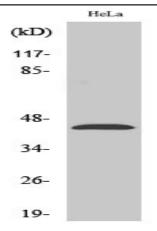
Subcellular Location:

ubcellular Endoplasmic reticulum membrane ; Multi-pass membrane protein .

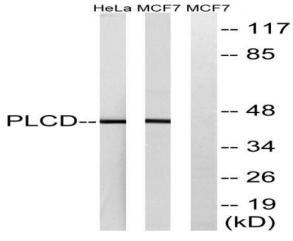
Expression: Widely expressed with highest levels in skeletal muscle, followed by heart, liver,

prostate and thymus.

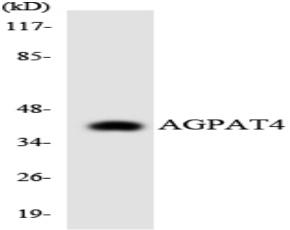
Products Images



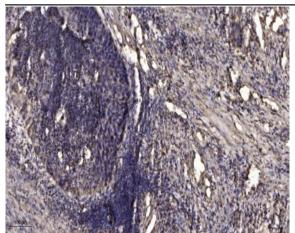
Western Blot analysis of various cells using LPAAT-δ Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from HeLa and MCF-7 cells, using AGPAT4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using AGPAT4 antibody.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).