Best Tools for immunology Research

LPAAT-ε Polyclonal Antibody

Catalog No :	YT2583
Reactivity :	Human;Mouse
Applications :	WB;IHC
Target :	LPAAT-ε
Fields :	>>Glycerolipid metabolism;>>Glycerophospholipid metabolism;>>Metabolic pathways;>>Phospholipase D signaling pathway
Gene Name :	AGPAT5
Protein Name :	1-acyl-sn-glycerol-3-phosphate acyltransferase epsilon
Human Gene Id :	55326
Human Swiss Prot No :	Q9NUQ2
Mouse Swiss Prot No :	Q9D1E8
Immunogen :	The antiserum was produced against synthesized peptide derived from human AGPAT5. AA range:241-290
Specificity :	LPAAT-ε Polyclonal Antibody detects endogenous levels of LPAAT-ε 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
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 : 45kD

Cell Pathway : Stem cell pathway

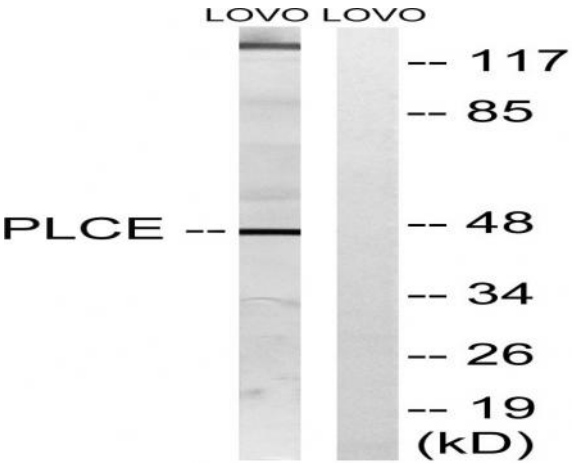
Background : This gene encodes a member of the 1-acylglycerol-3-phosphate O-acyltransferase family. This integral membrane protein converts lysophosphatidic acid to phosphatidic acid, the second step in de novo phospholipid biosynthesis. A pseudogene of this gene is present on the Y chromosome. [provided by RefSeq, Aug 2014],

Function : catalytic activity:Acyl-CoA + 1-acyl-sn-glycerol 3-phosphate = CoA + 1,2-diacyl-sn-glycerol 3-phosphate.,caution:It is uncertain whether Met-1 or Met-12 is the initiator.,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.,

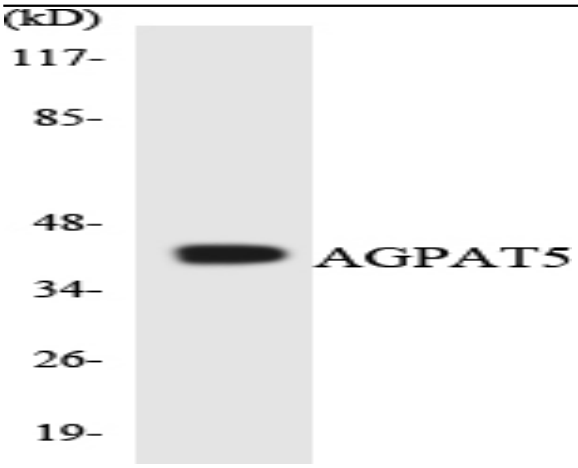
Subcellular Location : Endoplasmic reticulum membrane ; Multi-pass membrane protein . Nucleus envelope . Mitochondrion .

Expression : Widely expressed.

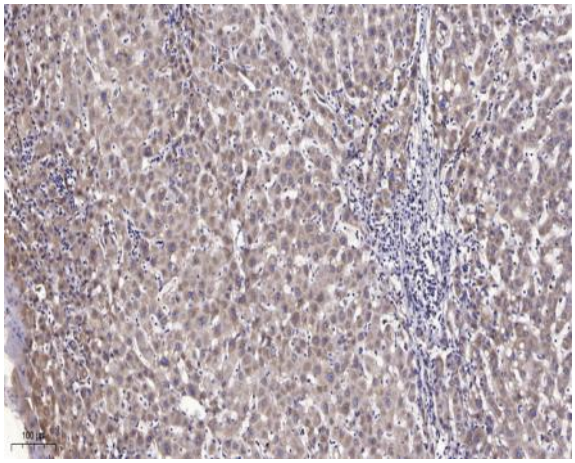
Products Images



Western blot analysis of lysates from LOVO cells, using AGPAT5 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using AGPAT5 antibody.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 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).