

**LPAAT-ε Polyclonal Antibody**

<b>Catalog No :</b>	YT2583
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;IHC
<b>Target :</b>	LPAAT-ε
<b>Fields :</b>	>>Glycerolipid metabolism;>>Glycerophospholipid metabolism;>>Metabolic pathways;>>Phospholipase D signaling pathway
<b>Gene Name :</b>	AGPAT5
<b>Protein Name :</b>	1-acyl-sn-glycerol-3-phosphate acyltransferase epsilon
<b>Human Gene Id :</b>	55326
<b>Human Swiss Prot No :</b>	Q9NUQ2
<b>Mouse Swiss Prot No :</b>	Q9D1E8
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human AGPAT5. AA range:241-290
<b>Specificity :</b>	LPAAT-ε Polyclonal Antibody detects endogenous levels of LPAAT-ε protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 45kD

**Cell Pathway :** Stem cell pathway

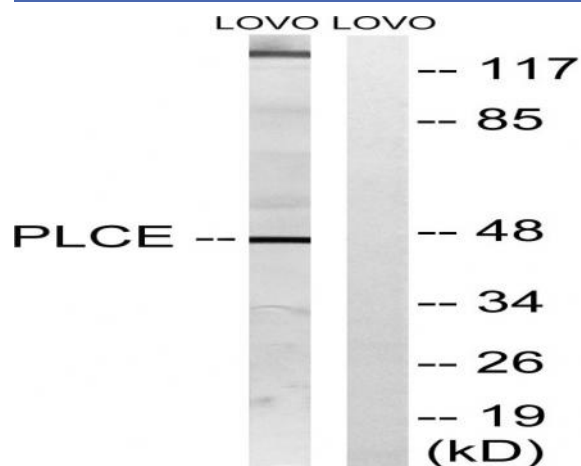
**Background :** This gene encodes a member of the 1-acylglycerol-3-phosphate O-acyltransferase family. This integral membrane protein converts lysophosphatidic acid to phosphatidic acid, the second step in de novo phospholipid biosynthesis. A pseudogene of this gene is present on the Y chromosome. [provided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

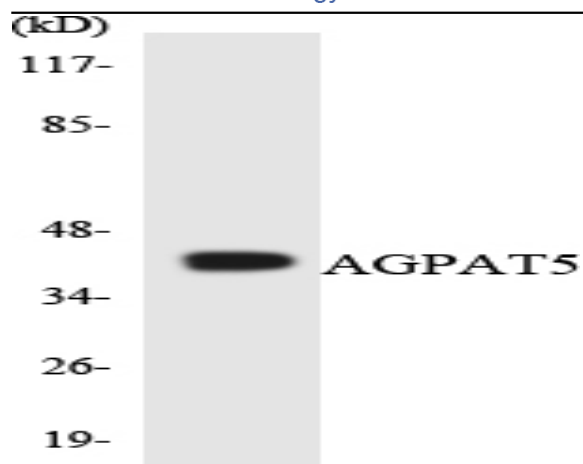
**Function :** catalytic activity:Acyl-CoA + 1-acyl-sn-glycerol 3-phosphate = CoA + 1,2-diacyl-sn-glycerol 3-phosphate.,caution:It is uncertain whether Met-1 or Met-12 is the initiator.,domain:The HXXXXD motif is essential for acyltransferase activity and may constitute the binding site for the phosphate 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 .

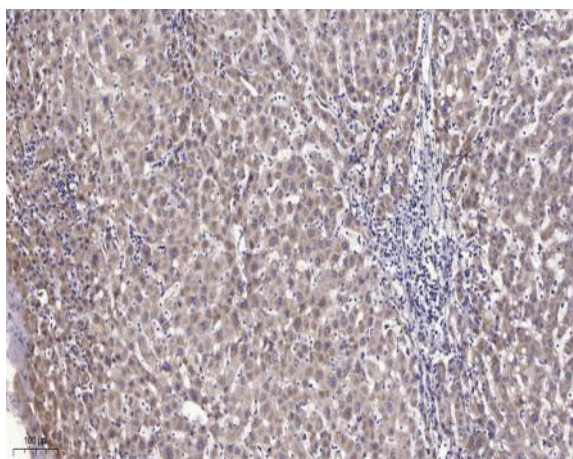
**Expression :** Widely expressed.

## Products Images





Western blot analysis of 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).