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**Product Name: LPAAT- $\gamma$  Rabbit Polyclonal Antibody****Catalog #: APRab13381**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000
<b>Molecular Weight</b>	40kDa

**Antigen Information**

<b>Gene Name</b>	AGPAT3
<b>Alternative Names</b>	AGPAT3; 1-acyl-sn-glycerol-3-phosphate acyltransferase gamma; 1-acylglycerol-3-phosphate O-acyltransferase 3; 1-AGP acyltransferase 3; 1-AGPAT 3; Lysophosphatidic acid acyltransferase gamma; LPAAT-gamma
<b>Gene ID</b>	56894.0
<b>SwissProt ID</b>	Q9NRZ7
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human AGPAT3. AA range:121-170

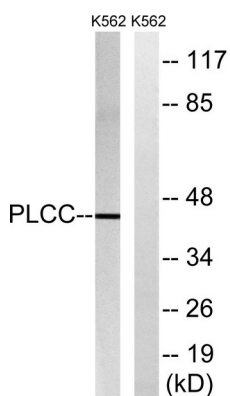
## Background

The protein encoded by this gene is an acyltransferase that converts lysophosphatidic acid into phosphatidic acid, which is the second step in the de novo phospholipid biosynthetic pathway. The encoded protein may be an integral membrane protein. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008], 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.,

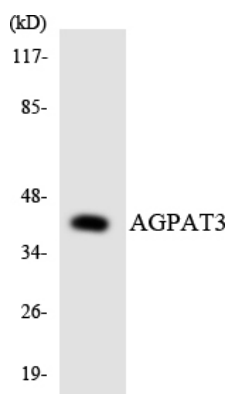
## Research Area

Glycerolipid metabolism; Glycerophospholipid metabolism; Ether lipid metabolism;

## Image Data



Western blot analysis of lysates from K562 cells, using AGPAT3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using AGPAT3 antibody.