

**AGPAT3 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50839****Specification**

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**AGPAT3 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">Q9NRZ7</a> |
| Reactivity        | Mouse                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 43,36,46 KDa           |
| Antigen Region    | 140-168                |

**AGPAT3 Antibody - Additional Information****Gene ID** 56894**Other Names**

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, AGPAT3, LPAAT3

**Dilution**

WB~~ 1:1000

**Format**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**AGPAT3 Antibody - Protein Information****Name** AGPAT3**Synonyms** LPAAT3**Function**

Converts 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone (PubMed:<a href="http://www.uniprot.org/citations/21173190" target="\_blank">21173190</a>). Acts on LPA containing saturated or unsaturated fatty acids C16:0-C20:4 at the sn-1 position using C18:1, C20:4 or C18:2-CoA as the acyl donor (PubMed:<a href="http://www.uniprot.org/citations/21173190" target="\_blank">21173190</a>). Also acts on lysophosphatidylcholine, lysophosphatidylinositol and lysophosphatidylserine using C18:1 or

C20:4-CoA (PubMed:<a href="http://www.uniprot.org/citations/21173190" target="\_blank">21173190</a>). Has a preference for arachidonoyl-CoA as a donor (By similarity). Also has a modest lysophosphatidylinositol acyltransferase (LPIAT) activity, converts lysophosphatidylinositol (LPI) into phosphatidylinositol (By similarity).

#### Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Nucleus envelope

#### Tissue Location

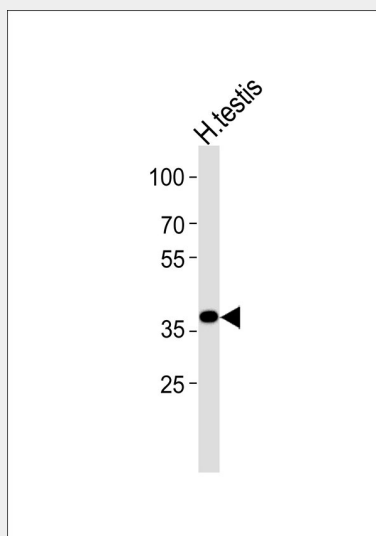
Widely expressed with highest levels in testis, pancreas and kidney, followed by spleen, lung, adipose tissue and liver.

### AGPAT3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### AGPAT3 Antibody - Images



Western blot analysis of lysate from human testis tissue lysate, using AGPAT3 Antibody, was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

### AGPAT3 Antibody - Background

Converts lysophosphatidic acid (LPA) into phosphatidic acid by incorporating an acyl moiety at the sn-2 position of the glycerol backbone. Acts on LPA containing saturated or unsaturated fatty acids C16:0-C20:4 at the sn-1 position using C18:1, C20:4 or C18:2-CoA as the acyl donor. Also acts on lysophosphatidylcholine, lysophosphatidylinositol and lysophosphatidylserine using C18:1 or

C20:4-CoA.

### **AGPAT3 Antibody - References**

Leung D.W.,et al.Front. Biosci. 6:D944-D953(2001).  
Nagamine K.,et al.Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.  
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).  
Hattori M.,et al.Nature 405:311-319(2000).  
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