

**AGPAT3 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8686c****Specification**

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**AGPAT3 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q9NRZ7](#)**AGPAT3 Antibody (Center) Blocking Peptide - 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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8686c](/products/AP8686c) was selected from the Center region of human AGPAT3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**AGPAT3 Antibody (Center) Blocking Peptide - 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:[21173190](http://www.uniprot.org/citations/21173190)). 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:[21173190](http://www.uniprot.org/citations/21173190)). 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). Has also 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 (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**AGPAT3 Antibody (Center) Blocking Peptide - Images****AGPAT3 Antibody (Center) Blocking Peptide - Background**

AGPAT3 is an acyltransferase that converts lysophosphatidic acid into phosphatidic acid, which is the second step in the de novo phospholipid biosynthetic pathway. This protein may be an integral membrane protein.

**AGPAT3 Antibody (Center) Blocking Peptide - References**

Leung,D.W. et.al., Front. Biosci. 6, D944-D953 (2001)Lu,B., et.al., Biochem. J. 385 (PT 2), 469-477 (2005)