

**AGPAT5 Antibody (N-term) Blocking Peptide**  
Synthetic peptide  
Catalog # BP18759a**Specification**

---

**AGPAT5 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O9NUQ2](#)**AGPAT5 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 55326

**Other Names**

1-acyl-sn-glycerol-3-phosphate acyltransferase epsilon, 1-acylglycerol-3-phosphate O-acyltransferase 5, 1-AGP acyltransferase 5, 1-AGPAT 5, Lysophosphatidic acid acyltransferase epsilon, LPAAT-epsilon, AGPAT5

**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.

**AGPAT5 Antibody (N-term) Blocking Peptide - Protein Information**

Name AGPAT5

**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 C15:0-C20:4 at the sn-1 position using C18:1-CoA as the acyl donor (PubMed:[21173190](http://www.uniprot.org/citations/21173190)). Also acts on lysophosphatidylethanolamine using oleoyl-CoA, but not arachidonoyl-CoA, and lysophosphatidylinositol using arachidonoyl-CoA, but not oleoyl-CoA (PubMed:[21173190](http://www.uniprot.org/citations/21173190)). Activity toward lysophosphatidylglycerol not detectable (PubMed:[21173190](http://www.uniprot.org/citations/21173190)).

**Cellular Location**

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

**Tissue Location**

Widely expressed.

### **AGPAT5 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **AGPAT5 Antibody (N-term) Blocking Peptide - Images**

### **AGPAT5 Antibody (N-term) Blocking Peptide - 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.

### **AGPAT5 Antibody (N-term) Blocking Peptide - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press : Agarwal, A.K., et al. Arch. Biochem. Biophys. 449 (1-2), 64-76 (2006) : Oh, J.H., et al. Mamm. Genome 16(12):942-954 (2005) Lu, B., et al. Biochem. J. 385 (PT 2), 469-477 (2005) : Leung, D.W. Front. Biosci. 6, D944-D953 (2001) :