

**AGPAT6 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9647a****Specification**

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**AGPAT6 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q86UL3](#)**AGPAT6 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 137964**Other Names**

Glycerol-3-phosphate acyltransferase 4, GPAT4, 1-acylglycerol-3-phosphate O-acyltransferase 6, 1-AGP acyltransferase 6, 1-AGPAT 6, Acyl-CoA:glycerol-3-phosphate acyltransferase 4, Lysophosphatidic acid acyltransferase zeta, LPAAT-zeta, AGPAT6, GPAT4

**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.

**AGPAT6 Antibody (N-term) Blocking Peptide - Protein Information****Name** GPAT4 ([HGNC:20880](#))**Function**

Converts glycerol-3-phosphate to 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) by incorporating an acyl moiety at the sn-1 position of the glycerol backbone (PubMed:[18238778](http://www.uniprot.org/citations/18238778)). Active against both saturated and unsaturated long-chain fatty acyl-CoAs (PubMed:[18238778](http://www.uniprot.org/citations/18238778)). Protects cells against lipotoxicity (PubMed:[30846318](http://www.uniprot.org/citations/30846318)).

**Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein

**Tissue Location**

Ubiquitous. High levels in testis. Relatively high level of expression in skeletal muscle and heart. Relatively low level of expression in lung.

## **AGPAT6 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **AGPAT6 Antibody (N-term) Blocking Peptide - Images**

## **AGPAT6 Antibody (N-term) Blocking Peptide - Background**

Lysophosphatidic acid acyltransferases (EC 2.3.1.51) catalyze the conversion of lysophosphatidic acid (LPA) to phosphatidic acid (PA). LPA and PA are involved in signal transduction and lipid biosynthesis.

## **AGPAT6 Antibody (N-term) Blocking Peptide - References**

Chen, Y.Q., et al. J. Biol. Chem. 283(15):10048-10057(2008) Tan, X.J., et al. Yi Chuan Xue Bao 33(4):294-303(2006) Li, D., et al. J. Hum. Genet. 48(8):438-442(2003)