

**AGPAT4 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8705c**

**Specification**

**AGPAT4 Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [Q9NRZ5](#)

**AGPAT4 Antibody (Center) Blocking Peptide - Additional Information**

**Gene ID** 56895

**Other Names**

1-acyl-sn-glycerol-3-phosphate acyltransferase delta, 1-acylglycerol-3-phosphate O-acyltransferase 4, 1-AGP acyltransferase 4, 1-AGPAT 4, Lysophosphatidic acid acyltransferase delta, LPAAT-delta, AGPAT4

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/products/AP8705c>AP8705c</a> was selected from the Center region of human AGPAT4. 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.

**AGPAT4 Antibody (Center) Blocking Peptide - Protein Information**

**Name** AGPAT4

**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 (By similarity). Exhibits high acyl-CoA specificity for polyunsaturated fatty acyl-CoA, especially docosahexaenoyl-CoA (22:6-CoA, DHA-CoA) (By similarity).

**Cellular Location**

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8K4X7}; Multi-pass membrane protein

**Tissue Location**

Widely expressed with highest levels in skeletal muscle, followed by heart, liver, prostate and thymus

**AGPAT4 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**AGPAT4 Antibody (Center) Blocking Peptide - Images****AGPAT4 Antibody (Center) Blocking Peptide - Background**

AGPAT4 converts lysophosphatidic acid (LPA) into phosphatidic acid by incorporating an acyl moiety at the sn-2 position of the glycerol backbone.

**AGPAT4 Antibody (Center) Blocking Peptide - References**

Leung,D.W. et.al., Front. Biosci. 6, D944-D953 (2001)Clark,H.F., et.al., Genome Res. 13 (10), 2265-2270 (2003)