

LPCT4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9908b**Specification**

LPCT4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q643R3](#)**LPCT4 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 254531**Other Names**

Lysophospholipid acyltransferase LPCAT4, 1-acylglycerol-3-phosphate O-acyltransferase 7, 1-AGP acyltransferase 7, 1-AGPAT 7, 1-acylglycerophosphocholine O-acyltransferase, 1-acylglycerophosphoserine O-acyltransferase, 231n6, 1-alkenylglycerophosphoethanolamine O-acyltransferase, 1-alkylglycerophosphocholine O-acetyltransferase, Acyltransferase-like 3, Lysophosphatidylcholine acyltransferase 4, Lysophosphatidylethanolamine acyltransferase 2, 231n7, Plasmalogen synthase, LPCAT4, AGPAT7, AYTL3, LPEAT2

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.

LPCT4 Antibody (C-term) Blocking Peptide - Protein Information**Name** LPCAT4**Synonyms** AGPAT7, AYTL3, LPEAT2**Function**

Displays acyl-CoA-dependent lysophospholipid acyltransferase activity with a subset of lysophospholipids as substrates; converts lysophosphatidylethanolamine to phosphatidylethanolamine, lysophosphatidylcholine to phosphatidylcholine, 1-alkenyl-lysophosphatidylethanolamine to 1-alkenyl-phosphatidylethanolamine, lysophosphatidylglycerol and alkyl-lysophosphatidylcholine to phosphatidylglycerol and alkyl-phosphatidylcholine, respectively. In contrast, has no lysophosphatidylinositol, glycerol-3-phosphate, diacylglycerol or lysophosphatidic acid acyltransferase activity. Prefers long chain acyl-CoAs (C16, C18) as acyl donors.

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Widely expressed with predominant level in brain.

LPCT4 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

LPCT4 Antibody (C-term) Blocking Peptide - Images**LPCT4 Antibody (C-term) Blocking Peptide - Background**

Members of the 1-acylglycerol-3-phosphate O-acyltransferase (EC 2.3.1.51) family, such as AGPAT7, catalyze the conversion of lysophosphatidic acid (LPA) to phosphatidic acid (PA), a precursor in the biosynthesis of all glycerolipids. Both LPA and PA are involved in signal transduction.

LPCT4 Antibody (C-term) Blocking Peptide - References

Cao, J., et al. J. Biol. Chem. 283(27):19049-19057(2008) Ye, G.M., et al. DNA Seq. 16(5):386-390(2005)