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AGPAT3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8686c

Specification

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 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). 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). Also acts on lysophosphatidylcholine, lysophosphatidylinositol and lysophosphatidylserine using C18:1 or

C20:4-CoA (PubMed:21173190). 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)