

AGPAT9 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18013c**Specification**

AGPAT9 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q53EU6](#)**AGPAT9 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 84803**Other Names**

Glycerol-3-phosphate acyltransferase 3, GPAT-3, 1-acyl-sn-glycerol-3-phosphate O-acyltransferase 10, AGPAT 10, 1-acyl-sn-glycerol-3-phosphate O-acyltransferase 9, 1-AGP acyltransferase 9, 1-AGPAT 9, Acyl-CoA:glycerol-3-phosphate acyltransferase 3, hGPAT3, Lung cancer metastasis-associated protein 1, Lysophosphatidic acid acyltransferase theta, LPAAT-theta, MAG-1, AGPAT9, GPAT3, MAG1

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.

AGPAT9 Antibody (Center) Blocking Peptide - Protein Information**Name** GPAT3 ([HGNC:28157](#))**Synonyms** AGPAT9, MAG1**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:17170135). Also converts 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:19318427). Protects cells against lipotoxicity (PubMed:30846318).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Widely expressed. Expressed in liver, kidney, testis, brain, heart, skeletal muscle, thyroid, prostate, thymus and placenta. Also expressed lung and adipose tissue

AGPAT9 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

AGPAT9 Antibody (Center) Blocking Peptide - Images**AGPAT9 Antibody (Center) Blocking Peptide - Background**

Glycerol-3-phosphate (G3P) acyltransferases (GPAT; EC2.3.1.15), such as GPAM (MIM 602395) and GPAT3, catalyze the initial step of de novo triacylglycerol (TAG) synthesis by converting glycerol-3-phosphate (G3P) to lysophosphatidic acid (LPA) (Cao et al., 2006 [PubMed 17170135]).

AGPAT9 Antibody (Center) Blocking Peptide - References

Shan, D., et al. J. Lipid Res. 51(7):1971-1981(2010) Cao, J., et al. Proc. Natl. Acad. Sci. U.S.A. 103(52):19695-19700(2006) Tang, W., et al. J. Biochem. Mol. Biol. 39(5):626-635(2006) Yamada, S., et al. Oncogene 23(35):5901-5911(2004) Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)