

AGPAT9 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18013c

Specification

AGPAT9 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q53EU6
Other Accession	Q4V8J4 , Q8C0N2 , NP_116106.2
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	48705
Antigen Region	194-222

AGPAT9 Antibody (Center) - 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

Target/Specificity

This AGPAT9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 194-222 amino acids from the Central region of human AGPAT9.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

AGPAT9 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

AGPAT9 Antibody (Center) - 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

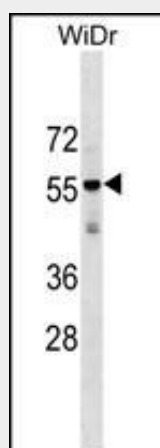
Widely expressed. Expressed in liver, kidney, testis, brain, heart, skeletal muscle, thyroid, prostate, thymus and placenta. Also expressed lung and adipose tissue

AGPAT9 Antibody (Center) - Protocols

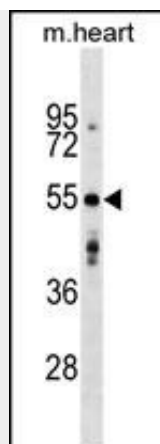
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AGPAT9 Antibody (Center) - Images



AGPAT9 Antibody (Center) (Cat. #AP18013c) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the AGPAT9 antibody detected the AGPAT9 protein (arrow).



AGPAT9 Antibody (Center) (Cat. #AP18013c) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the AGPAT9 antibody detected the AGPAT9 protein (arrow).

AGPAT9 Antibody (Center) - Background

Glycerol-3-phosphate (G3P) acyltransferases (GPAT; EC 2.3.1.15), 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) - 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)