10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# 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

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**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

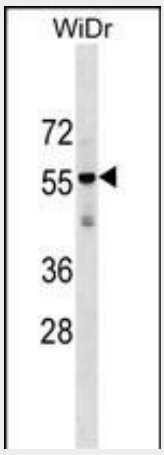
**Tissue Location**
Widely expressed. Expressed in liver, kidney, testis, brain, heart, skeletal muscle, thyroid, prostate, thymus and placenta. Also expressed lung and adipose tissue

## 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 Cytomety
- 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).

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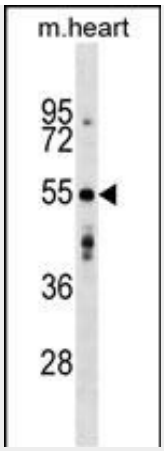


AGPAT9 Antibody (Center) (Cat. #AP18013c) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the AGPAT9 antibody detected the AGPAT9 protein (arrow).

**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)