

# AGPAT4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8705c

## **Product Information**

Application	WB, FC, E
Primary Accession	<u>Q9NRZ5</u>
Other Accession	<u>Q4R581</u>
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22751
Calculated MW	44021
Antigen Region	176-202

#### **Additional Information**

Gene ID	56895
Other Names	1-acyl-sn-glycerol-3-phosphate acyltransferase delta, 1-acylglycerol-3-phosphate O-acyltransferase 4, 1-AGP acyltransferase 4, 1-AGPAT 4, Lysophosphatidic acid acyltransferase delta, LPAAT-delta, AGPAT4
Target/Specificity	This AGPAT4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 176-202 amino acids from the Central region of human AGPAT4.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
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	AGPAT4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### **Protein Information**

Name	AGPAT4
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 (By similarity). Exhibits high acyl-CoA specificity for polyunsaturated fatty acyl-CoA, especially docosahexaenoyl-CoA (22:6-CoA, DHA-CoA) (By similarity).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:Q8K4X7}; Multi-pass membrane protein
Tissue Location	Widely expressed with highest levels in skeletal muscle, followed by heart, liver, prostate and thymus

#### Background

AGPAT4 converts lysophosphatidic acid (LPA) into phosphatidic acid by incorporating an acyl moiety at the sn-2 position of the glycerol backbone.

#### References

Leung, D.W. et.al., Front. Biosci. 6, D944-D953 (2001) Clark, H.F., et.al., Genome Res. 13 (10), 2265-2270 (2003)

#### Images



Western blot analysis of AGPAT4 Antibody (Center) (Cat. #AP8705c) in MDA-MB435 cell line lysates (35ug/lane). AGPAT4 (arrow) was detected using the purified Pab.



AGPAT4 Antibody (Center) (Cat.#AP8705c) flow cytometry analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.