

# AGPAT4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8705c

## Product Information

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

## Additional Information

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<b>Gene ID</b>	56895
<b>Other Names</b>	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
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	AGPAT4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	AGPAT4
<b>Function</b>	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).

<b>Cellular Location</b>	Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:Q8K4X7}; Multi-pass membrane protein
<b>Tissue Location</b>	Widely expressed with highest levels in skeletal muscle, followed by heart, liver, prostate and thymus

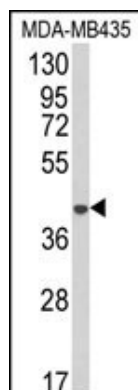
## Background

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

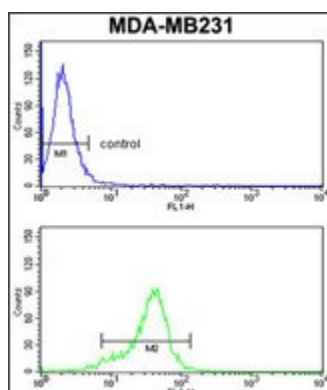
## References

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'.