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

AGPAT4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8705c

Product Information

Application	WB, FC, E
Primary Accession	Q9NRZ5
Other Accession	Q4R581
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

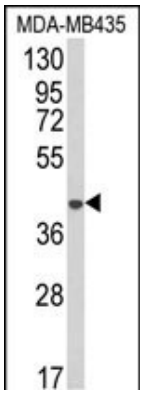
Background

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

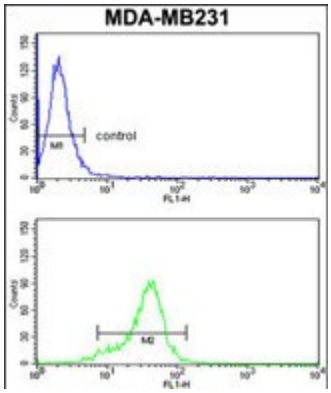
References

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'.