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AGPAT4 Rabbit pAb

Catalog # AP100132

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9NRZ5
Other Accession	Q9NRZ5
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44021
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Agpat4
Epitope Specificity	231-330/378
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Agpat4 converts lysophosphatidic acid into phosphatidic acid by incorporating acyl moiety at the 2 position. The HXXXXD motif is essential for acyltransferase activity and may constitute the binding site for the phosphate moiety of the glycerol-3-phosphate.

Additional Information

Gene ID	56895
Other Names	1-AGPAT4; LPAAT-delta; LPAAT4; LPLAT4; dJ473J16.2; 1500003P24Rik; PLCD_HUMAN; AGPAT4; 1-acylglycerol-3-phosphate O-acyltransferase 4 (1-AGP acyltransferase 4 | 1-AGPAT 4); Lysophosphatidic acid acyltransferase delta (LPAAT-delta); 2.3.1.51; PLCD_MOUSE; PLCD_RAT; 1-acylglycerol-3-phosphate O-acyltransferase 4; 1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta); lysophosphatidic acid acyltransferase, delta; 1-acyl-sn-glycerol-3-phosphate acyltransferase delta; lysophospholipid acyltransferase 4
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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