

# AGPAT4 Rabbit pAb

Catalog # AP100132

## Product Information

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| <b>Application</b>             | WB, IHC-P, IHC-F, IF                                                                                                                                                                                                                                              |
| <b>Primary Accession</b>       | <a href="#">Q9NRZ5</a>                                                                                                                                                                                                                                            |
| <b>Other Accession</b>         | <a href="#">Q9NRZ5</a>                                                                                                                                                                                                                                            |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                            |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                        |
| <b>Calculated MW</b>           | 44021                                                                                                                                                                                                                                                             |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                            |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human Agpat4                                                                                                                                                                                                        |
| <b>Epitope Specificity</b>     | 231-330/378                                                                                                                                                                                                                                                       |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                               |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                    |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                 |
| <b>SIMILARITY</b>              | Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family.                                                                                                                                                                                             |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                         |
| <b>Background Descriptions</b> | 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

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| <b>Gene ID</b>     | 56895                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Other Names</b> | 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 |
| <b>Dilution</b>    | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>     | 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

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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};<br>Multi-pass membrane protein                                                                                                                                                                                                                                                                                      |
| <b>Tissue Location</b>   | 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'.