

AGPAT3 antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI14571

Product Information

Application WB
Primary Accession Q9NRZ7

Other Accession <u>NM 020132, NP 064517</u>

Reactivity Human, Mouse, Rat, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine

Predicted Human, Mouse, Rat, Zebrafish, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 43381

Additional Information

Gene ID 56894

Alias Symbol LPAAT-GAMMA1, MGC4604

Other Names 1-acyl-sn-glycerol-3-phosphate acyltransferase gamma, 2.3.1.51,

1-acylglycerol-3-phosphate O-acyltransferase 3, 1-AGP acyltransferase 3, 1-AGPAT 3, Lysophosphatidic acid acyltransferase gamma, LPAAT-gamma,

AGPAT3, LPAAT3

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 50 ul of distilled water. Final anti-AGPAT3 antibody concentration is 1

mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at

20°C. Avoid repeat freeze-thaw cycles.

Precautions AGPAT3 antibody - middle region is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name AGPAT3

Synonyms LPAAT3

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

(PubMed:<u>21173190</u>). Acts on LPA containing saturated or unsaturated fatty acids C16:0-C20:4 at the sn-1 position using C18:1, C20:4 or C18:2-CoA as the acyl donor (PubMed:<u>21173190</u>). Also acts on lysophosphatidylcholine,

lysophosphatidylinositol and lysophosphatidylserine using C18:1 or C20:4-CoA (PubMed:21173190). Has a preference for arachidonoyl-CoA as a donor (By similarity). Also has a modest lysophosphatidylinositol acyltransferase (LPIAT) activity, converts lysophosphatidylinositol (LPI) into phosphatidylinositol (By

similarity).

Endoplasmic reticulum membrane; Multi-pass membrane protein. Nucleus **Cellular Location**

envelope

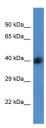
Widely expressed with highest levels in testis, pancreas and kidney, followed **Tissue Location**

by spleen, lung, adipose tissue and liver.

References

Leung D.W., et al. Front. Biosci. 6:D944-D953(2001). Nagamine K., et al. Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases. Clark H.F., et al. Genome Res. 13:2265-2270(2003). Hattori M., et al. Nature 405:311-319(2000). Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



WB Suggested Anti-AGPAT3 Antibody Titration: 1.0 µg/ml Positive Control: Fetal Liver

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