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AGPAT3 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14571

Specification

AGPAT3 antibody - middle region - Product Information

Application	**WB**
Primary Accession	Q9NRZ7
Other Accession	NM_020132, NP_064517
Reactivity	**Human, Mouse, Rat, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Pig, Chicken, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**43kDa KDa**

AGPAT3 antibody - middle region - 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.

AGPAT3 antibody - middle region - 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:<a

href="http://www.uniprot.org/citations/21173190" target="_blank">21173190). 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:21173190). 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). Has also a modest lysophosphatidylinositol acyltransferase (LPIAT) activity, converts lysophosphatidylinositol (LPI) into phosphatidylinositol (By similarity).

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

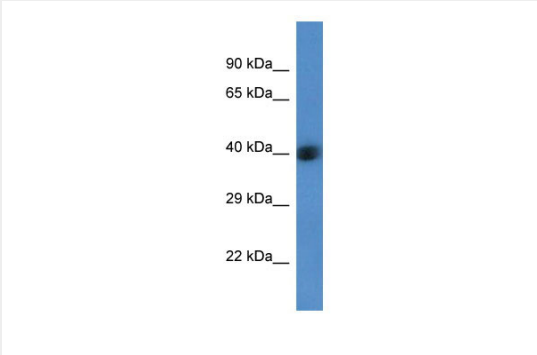
Tissue Location
Widely expressed with highest levels in testis, pancreas and kidney, followed by spleen, lung, adipose tissue and liver.

AGPAT3 antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AGPAT3 antibody - middle region - Images



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

AGPAT3 antibody - middle region - 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.