

AGPAT3 Antibody (aa121-170)
Rabbit Polyclonal Antibody
Catalog # ALS16635**Specification**

AGPAT3 Antibody (aa121-170) - Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NRZ7
Other Accession	56894
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	43381
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

AGPAT3 Antibody (aa121-170) - Additional Information

Gene ID 56894

Other Names

AGPAT3, 1-AGP acyltransferase 3, 1-AGPAT 3, LPAAT3, LPAAT-gamma, LPAAT-GAMMA1

Target/Specificity

AGPAT3 Antibody detects endogenous levels of total AGPAT3 protein.

Reconstitution & Storage

PBS (without Mg²⁺, Ca²⁺), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol.
Store at -20°C for up to one year.

Precautions

AGPAT3 Antibody (aa121-170) is for research use only and not for use in diagnostic or therapeutic procedures.

AGPAT3 Antibody (aa121-170) - 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: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). Also has 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.

Volume

50 µl

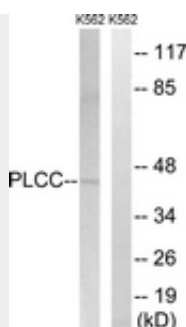
AGPAT3 Antibody (aa121-170) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AGPAT3 Antibody (aa121-170) - Images

Anti-AGPAT3 antibody IHC staining of human kidney.



Western blot of extracts from K562 cells, using AGPAT3 Antibody.

AGPAT3 Antibody (aa121-170) - Background

Converts lysophosphatidic acid (LPA) into phosphatidic acid by incorporating an acyl moiety at the sn-2 position of the glycerol backbone. 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. Also acts on lysophosphatidylcholine, lysophosphatidylinositol and lysophosphatidylserine using C18:1 or C20:4-CoA.

AGPAT3 Antibody (aa121-170) - 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).
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