

LPGAT1 Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14828

Product Information

Application	WB
Primary Accession	Q92604
Other Accession	XP_005273421
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43089

Additional Information

Gene ID	9926
Alias Symbol Other Names	LPGAT1, FAM34A, KIAA0205, Acyl-CoA:lysophosphatidylglycerol acyltransferase 1, 2.3.1.-, LPGAT1, FAM34A, KIAA0205
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 µl of distilled water. Final Anti-LPGAT1 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	LPGAT1 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LPGAT1 (HGNC:28985)
Function	Lysophospholipid acyltransferase involved in fatty acyl chain remodeling of glycerophospholipids in the endoplasmic reticulum membrane (By similarity). Selectively catalyzes the transfer and esterification of saturated long-chain fatty acids from acyl-CoA to the sn-1 position of 1-lyso-2-acyl phosphatidylethanolamines (1-lyso-PE, LPE), with a preference for stearoyl CoA over palmitoyl CoA as acyl donor (PubMed: 36049524). Acts in concert with an unknown phospholipase A1 to convert palmitate phosphatidylethanolamine (PE) species into stearate ones. Provides substrates to the PE methylation pathway, controlling stearate/palmitate composition of PE and phosphatidylcholine (PC) species with an overall impact on de novo hepatic lipid synthesis, body fat content and life span (By

similarity). Can acylate lysophosphatidylglycerols (LPG) using various saturated fatty acyl-CoAs as acyl donors (PubMed:[15485873](#)). Can also acylate monoacylglycerols with a preference for 2-monoacylglycerols over 1-monoacylglycerols (By similarity). Has no activity toward lysophosphatidic acids (LPA) (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Highly expressed in liver and placenta. Also expressed in peripheral blood, lung, kidney and brain. Detected at lower levels in colon. High expression is detected in brain and testis

References

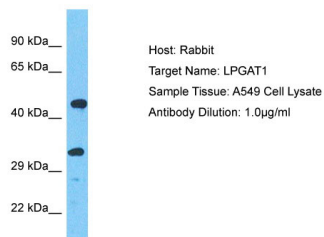
Yang Y.,et al.J. Biol. Chem. 279:55866-55874(2004).

Ji D.,et al.Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.

Nagase T.,et al.DNA Res. 3:321-329(1996).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



Host: Rabbit
Target Name: LPGAT1
Sample Tissue: A549 Cell Lysate
Antibody Dilution: 1.0µg/ml

Host: Rabbit
Target Name: LPGAT1
Sample Tissue: A549 Whole cell lysate
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Antibody Dilution: 1.0µg/ml

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