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LPGAT1 Antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14828

Specification

LPGAT1 Antibody - middle region - Product Information

Application	**WB**
Primary Accession	Q92604
Other Accession	XP_005273421
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**40kDa KDa**

LPGAT1 Antibody - middle region - Additional Information

Gene ID 9926

Alias Symbol **LPGAT1, FAM34A, KIAA0205,**
Other Names
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 &mu, l 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.

LPGAT1 Antibody - middle region - 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

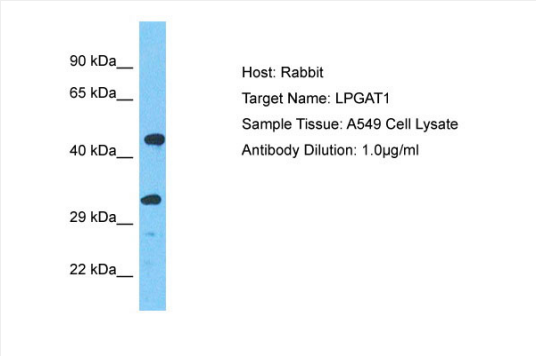
Tissue Location
Highly expressed in liver and placenta. Also expressed in peripheral blood, lung, kidney and brain. Detected at lower levels in colon. High expression is detected in brain and testis

LPGAT1 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

LPGAT1 Antibody - middle region - Images



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

LPGAT1 Antibody - middle region - 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.