

LCLT1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5723b

Specification

LCLT1 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q6UWP7
Other Accession	Q3UN02 , NP_872357.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	296-324

LCLT1 Antibody (C-term) - Additional Information

Gene ID 253558

Other Names

Lysocardiolipin acyltransferase 1, 231-, 1-acylglycerol-3-phosphate O-acyltransferase 8, 1-AGP acyltransferase 8, 1-AGPAT 8, Acyl-CoA:lysocardiolipin acyltransferase 1, LCLAT1, AGPAT8, ALCAT1, LYCAT

Target/Specificity

This LCLT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 296-324 amino acids of human LCLT1.

Dilution

WB~~1:1000
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

LCLT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LCLT1 Antibody (C-term) - Protein Information

Name LCLAT1

Synonyms AGPAT8 {ECO:0000303|PubMed:16620771}, AL

Function Exhibits acyl-CoA:lysocardiolipin acyltransferase (ALCAT) activity; catalyzes the reacylation of lyso-cardiolipin to cardiolipin (CL), a key step in CL remodeling (By similarity). Recognizes both monolysocardiolipin and dilyocardiolipin as substrates with a preference for linoleoyl-CoA and oleoyl-CoA as acyl donors (By similarity). Also exhibits 1-acyl-sn-glycerol-3-phosphate acyltransferase activity (AGPAT) activity; 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:[16620771](#)). Possesses both lysophosphatidylinositol acyltransferase (LPIAT) and lysophosphatidylglycerol acyltransferase (LPGAT) activities (PubMed:[19075029](#)). Required for establishment of the hematopoietic and endothelial lineages (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

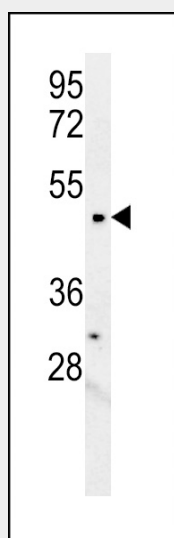
Expressed at higher level in heart, kidney and pancreas than in brain, spleen, liver, lung, small intestine and placenta.

LCLT1 Antibody (C-term) - Protocols

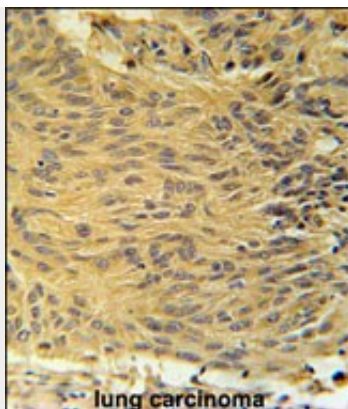
Provided below are standard protocols that you may find useful for product applications.

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

LCLT1 Antibody (C-term) - Images



LCLT1 Antibody (C-term) (Cat. #AP5723b) western blot analysis in mouse kidney tissue lysates (15ug/lane). This demonstrates the LCLT1 antibody detected LCLT1 protein (arrow).



LCLT1 Antibody (C-term) (Cat. #AP5723b) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the LCLT1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

LCLT1 Antibody (C-term) - Background

Acyl-CoA:lysocardiolipin acyltransferase. Possesses both lysophosphatidylinositol acyltransferase (LPIAT) and lysophosphatidylglycerol acyltransferase (LPGAT) activities. Recognizes both monolysocardiolipin and dilyocardiolipin as substrates with a preference for linoleoyl-CoA and oleoyl-CoA as acyl donors. Acts as a remodeling enzyme for cardiolipin, a major membrane polyglycerophospholipid. Converts lysophosphatidic acid (LPA) into phosphatidic acid (PA) with a relatively low activity. Required for establishment of the hematopoietic and endothelial lineages.

LCLT1 Antibody (C-term) - References

Zhao, Y., et al. J. Lipid Res. 50(5):945-956(2009)
Wang, C., et al. Blood 110(10):3601-3609(2007)
Agarwal, A.K., et al. Arch. Biochem. Biophys. 449 (1-2), 64-76 (2006)

LCLT1 Antibody (C-term) - Citations

- [The prognostic value of the GPAT/AGPAT gene family in hepatocellular carcinoma and its role in the tumor immune microenvironment](#)
- [Label-free quantitative proteomic analysis of right ventricular remodeling in infant Tetralogy of Fallot patients.](#)