DATASHEET

LPCAT3 Mouse Monoclonal Antibody(ARA490)

CAT. NO. ARA5804

KEY FEATURES

Target	LPCAT3	**Source / Host**	Mouse
Reactivity	Human, Pig	**Clonality**	Monoclonal
Applications	WB,IHC,ELISA	**Conjugation**	Unconjugated
Isotype	IgG1	**Storage**	at -20°C

BACKGROUND

Lysophosphatidylcholine acyltransferases (LPCATs) are among the lysophospholipid acyltransferases (LPLATs) that play an important role in lipid metabolism and homeostasis by regulating the abundance of different phosphatidylcholine (PC) species. Lysophosphatidylcholine acyltransferase 3 (LPCAT3) is a member of the LPCAT family that primarily regulates the levels of arachidonic PC species. LPCAT3 is abundantly expressed in the testes, kidneys, and metabolic tissues, including the liver, intestine, and adipose tissues. LPCAT3 is involved in the occurrence and development of atherosclerosis, intestinal tumors, and nonalcoholic steatohepatitis (NASH) (PMID:35711841).

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:1,000 - 1:6,000
IHC	1:150 - 1:600
ELISA	Assay-dependent

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Mouse monoclonal antibody to LPCAT3 for WB, IHC and ELISA.
Specificity	Recognizes endogenous levels of LPCAT3 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant human LPCAT3 protein (amino acids 122-233) expressed in E. coli with 6×His tag.
Molecular Weight	Predicted: 56 kDa; Observed: 56 kDa
Purification	Protein G purification
Isotype	IgG1
Form/Buffer	Liquid in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Alternative Names	1-acylglycerophosphocholine O-acyltransferase, 1-acylglycerophosphoethanolamine O-acyltransferase, 1-acylglycerophosphoserine O-acyltransferase, C3F
Gene Symbol	LPCAT3
Entrez Gene	10162
SwissProt	Q6P1A2

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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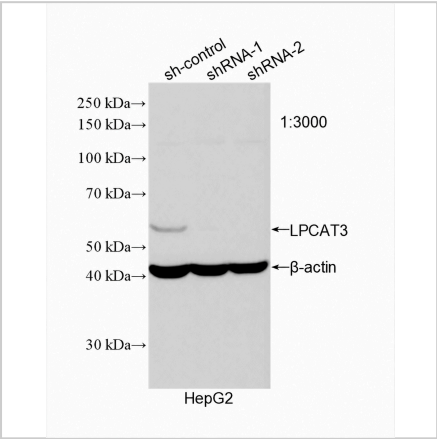
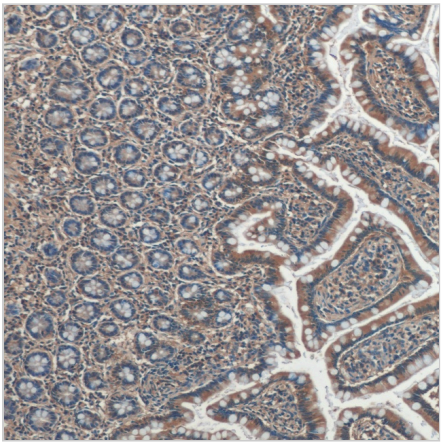
DATA



Western blot analysis of LPCAT3 in HepG2 cells with LPCAT3 Mouse Monoclonal Antibody(ARA490) at 1:3,000 dilution.

Lane 1: HepG2 cells transfected with sh-control
Lane 2: HepG2 cells transfected with LPCAT3 shRNA-1
Lane 3: HepG2 cells transfected with LPCAT3 shRNA-2

Predicted band size: 56 kDa
Observed band size: 56 kDa



Immunohistochemical analysis of paraffin-embedded human small intestine tissue using LPCAT3 Mouse Monoclonal Antibody(ARA490) at 1:300 dilution (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com