

**DATASHEET**

**LPCAT3 Rabbit Polyclonal Antibody**

CAT. NO. APA17433

**KEY FEATURES**

Target	LPCAT3	Source / Host	Rabbit
Reactivity	Human, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

Lysophospholipid O-acyltransferase (LPLAT) that catalyzes the reacylation step of the phospholipid remodeling process also known as the Lands cycle that catalyzes the reacylation step of the phospholipid remodeling process also known as the Lands cycle . Catalyzes transfer of the fatty acyl chain from fatty acyl-CoA to 1-acyl lysophospholipid to form various classes of phospholipids. Converts 1-acyl lysophosphatidylcholine (LPC) into phosphatidylcholine (PC) (LPCAT activity), 1-acyl lysophosphatidylserine (LPS) into phosphatidylserine (PS) (LPSAT activity) and 1-acyl lysophosphatidylethanolamine (LPE) into phosphatidylethanolamine (PE) (LPEAT activity) . Favors polyunsaturated fatty acyl-CoAs as acyl donors compared to saturated fatty acyl-CoAs .

**APPLICATION**

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

WB	1:500 - 1:1000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

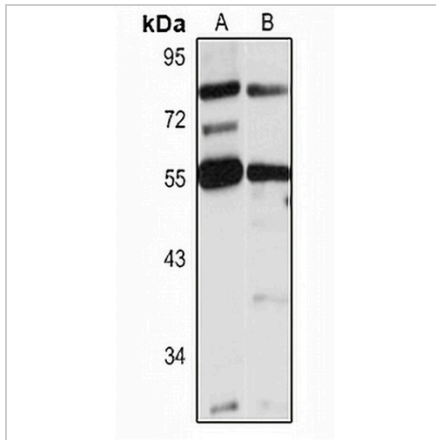
Description	Rabbit polyclonal antibody to LPCAT3
Specificity	Recognizes endogenous levels of LPCAT3 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant protein corresponding to human LPCAT3. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 56 kD; Observed: 60 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	MBOAT5; OACT5; Lysophospholipid acyltransferase 5; LPLAT 5; 1-acylglycerophosphocholine O-acyltransferase; 1-acylglycerophosphoserine O-acyltransferase; Lysophosphatidylcholine acyltransferase; LPCAT; Lyso-PC acyltransferase; Lysophosphatidylcholine acyltransferase 3; Lyso-PC acyltransferase 3; Lysophosphatidylserine acyltransferase; LPSAT; Lyso-PS acyltransferase; Membrane-bound O-acyltransferase domain-containing protein 5; O-acyltransferase domain-containing protein 5
Gene Symbol	LPCAT3
Entrez Gene	10162(Human); 362434(Rat)
SwissProt	Q6P1A2(Human); Q5FVN0(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto: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 expression in mouse testis (A), rat testis (B) whole cell lysates. (Predicted band size: 56 kD; Observed band size: 60 kD)

**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.