

For Research Use Only

# Mouse LCAT Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 86041-1-PBS



## Basic Information

Catalog Number:	86041-1-PBS	GenBank Accession Number:	NM_008490.2
Source:	Rabbit	GenID (NCBI):	16816
Isotype:	IgG	UNIPROT ID:	P16301
Immunogen Catalog Number:	EG2756	Full Name:	lecithin cholesterol acyltransferase
		Calculated MW:	50 kDa
		Observed MW:	55-65 kDa

## Applications

Tested Applications:  
WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:  
mouse, rat

## Background Information

LCAT (Lecithin-cholesterol acyltransferase) is a lipoprotein-associated enzyme responsible for the synthesis of most of the plasma cholesterol esters (CE), and as a consequence, for the maturation of high density-lipoproteins (HDL). LCAT is a 416 amino acid protein that binds to lipoproteins or is present in lipid-free form in plasma and is secreted by the liver in humans (PMID: 34256778, 26607351). Both mice and rabbits transgenic for human LCAT have marked increases in plasma HDL cholesterol and apolipoprotein (apo) A-I levels (PMID: 9054454).

## Storage

Storage:  
Store at -80°C.  
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C  
Storage Buffer:  
PBS only, pH7.3

For technical support and original validation data for this product please contact:

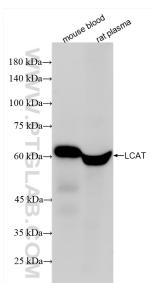
T: 4006900926

E: Proteintech-CN@ptglab.com

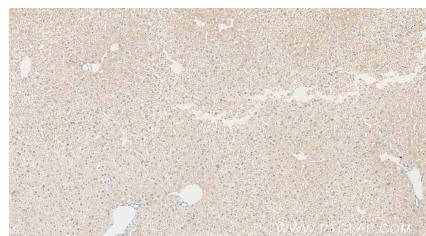
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

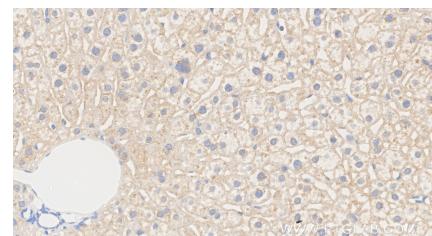
## Selected Validation Data



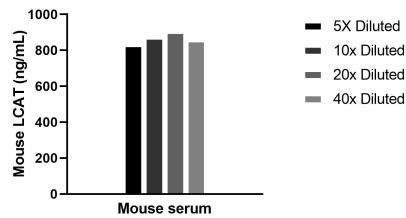
Various lysates were subjected to SDS PAGE followed by western blot with 86041-1-RR (LCAT antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86041-1-PBS in a different storage buffer formulation.



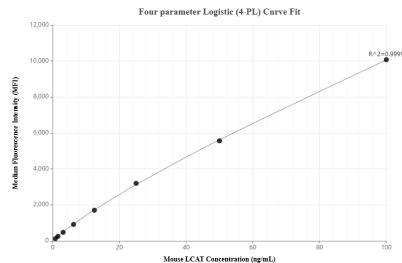
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 86041-1-RR (LCAT antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86041-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 86041-1-RR (LCAT antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86041-1-PBS in a different storage buffer formulation.



The mean LCAT concentration was determined to be 863.3 ng/mL in mouse serum.



Cytometric bead array standard curve of MP02258-1, MOUSE LCAT Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86041-2-PBS. Detection antibody: 86041-1-PBS. Standard: Eg2756. Range: 0.781-100 ng/mL.