

For Research Use Only

# LPCAT2 Monoclonal antibody

Catalog Number: 68476-1-Ig



## Basic Information

<b>Catalog Number:</b> 68476-1-Ig	<b>GenBank Accession Number:</b> BC002472	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54947	<b>CloneNo.:</b> 1E6G1
<b>Source:</b> Mouse	<b>Full Name:</b> lysophosphatidylcholine acyltransferase 2	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 60 kDa	
<b>Immunogen Catalog Number:</b> AG26420	<b>Observed MW:</b> 68 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
Human, mouse, rat

**Positive Controls:**

**WB :** BxPC-3 cells, A375 cells, A549 cells, HEK-293 cells, HT-29 cells, Jurkat cells, HL-60 cells, HSC-T6 cells, NIH/3T3 cells

## Background Information

LPCAT2 (Lysophosphatidylcholine acyltransferase 2) is also named as AGPAT11 and AYT1. Lipid droplet (LD) content of CRC cells positively correlates with the expression of lysophosphatidylcholine acyltransferase 2 (LPCAT2), an LD-localised enzyme supporting phosphatidylcholine synthesis (PMID: 29358673). Mitochondria play a significant role in ACSL4/LPCAT2-driven ferroptosis (PMID: 3762584). In response to LPS, LPCAT2, but not LPCAT1, rapidly associates with TLR4 and translocates to membrane lipid raft domains to regulate macrophage inflammatory gene expression (PMID: 32587324).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

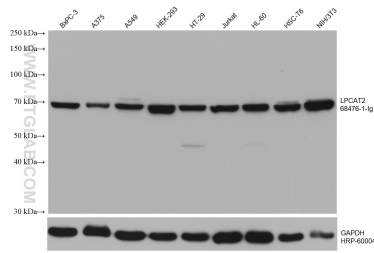
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68476-1-Ig (LPCAT2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.