

For Research Use Only

LPCAT2 Monoclonal antibody

Catalog Number: 68476-1-Ig



Basic Information

Catalog Number: 68476-1-Ig	GenBank Accession Number: BC002472	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 54947	CloneNo.: 1E6G1
Source: Mouse	UNIPROT ID: Q7L5N7	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG1	Full Name: lysophosphatidylcholine acyltransferase 2	
Immunogen Catalog Number: AG26420	Calculated MW: 60 kDa	
	Observed MW: 68 kDa	

Applications

Tested Applications: WB, ELISA	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
Species Specificity: Human, mouse, rat	

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

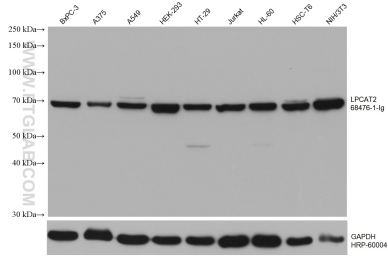
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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.