

For Research Use Only

AGPAT2 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83349-3-PBS



Basic Information

Catalog Number: 83349-3-PBS	GenBank Accession Number: BC019292	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 10555	CloneNo.: 240153C2
Source: Rabbit	UNIPROT ID: O15120	
Isotype: IgG	Full Name: 1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase, beta)	
Immunogen Catalog Number: AG34761	Calculated MW: 31 kDa	
	Observed MW: 27 kDa	

Applications

Tested Applications:
WB, IHC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human

Background Information

1-acyl-sn-glycerol-3-phosphate acyltransferase beta (AGPAT2) belongs to a family of enzymes catalyzing the sn-2 acylation of the glycerol-3-phosphate backbone. AGPAT2 is highly expressed in adipose tissues, liver, and skeletal muscle. AGPAT2 is the only AGPAT isoform whose loss-of-function mutations cause a severe form of human congenital generalized lipodystrophy (PMID: 34824276). Human and mouse AGPAT2 have a calculated molecular mass of 31 kDa, and an alternatively spliced form of AGPAT2 mRNA, encoding a protein of 246 rather than 278 amino acids, is also found in human (PMID: 19336658). Western detected AGPAT2 at an apparent molecular mass of 27 kDa.

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

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

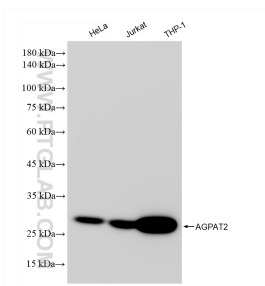
T: 4006900926

E: Proteintech-CN@ptglab.com

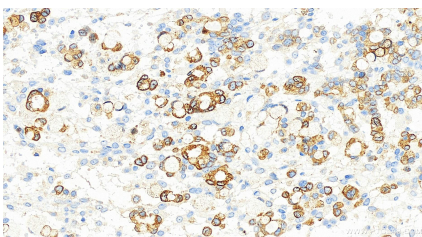
W: ptgcn.com

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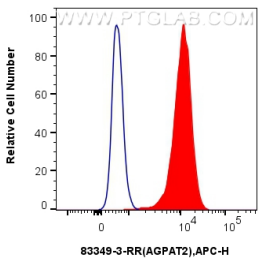
Selected Validation Data



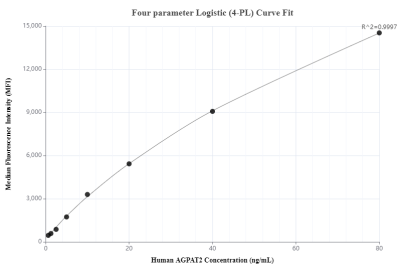
Various lysates were subjected to SDS PAGE followed by western blot with 83349-3-RR (AGPAT2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83349-3-PBS in a different storage buffer formulation.



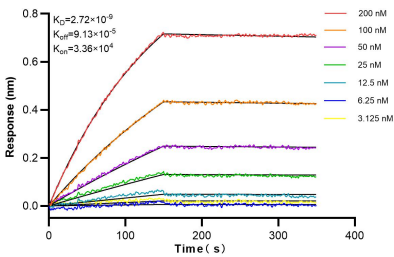
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83349-3-RR (AGPAT2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83349-3-PBS in a different storage buffer formulation.



1x10⁶ A549 cells were intracellularly stained with 0.25 ug AGPAT2 Recombinant antibody (83349-3-RR, Clone:240153C2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83349-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00360-2, AGPAT2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83349-3-PBS. Detection antibody: 83349-1-PBS. Standard: Ag34761. Range: 0.625-80 ng/mL.



Bioluminescence resonance energy transfer (BRET) kinetic assays of 83349-3-RR against Human AGPAT2 were performed. The affinity constant is 2.72 nM.