

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: 100ug , Concentration: 1 mg/ml by Nanodrop;	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

Product Information

83349-3-PBS targets AGPAT2 as part of a matched antibody pair.

MP00360-2: 83349-3-PBS capture and 83349-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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.

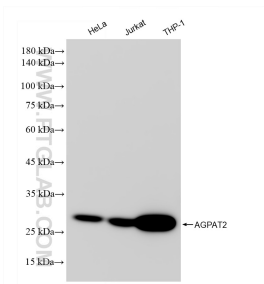
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

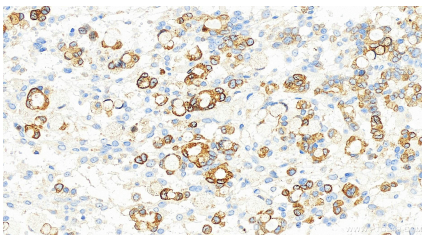
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

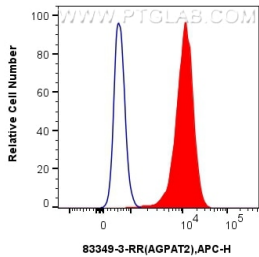
Selected Validation Data



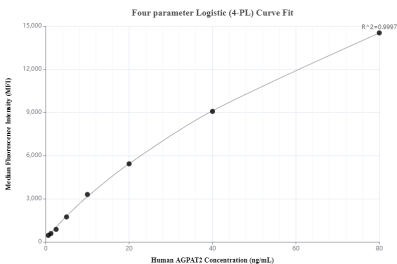
Various lysates were subjected to SDS PAGE followed by western blot with 83349-3-RR (AGPAT2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83349-3-PBS in a different storage buffer formulation.



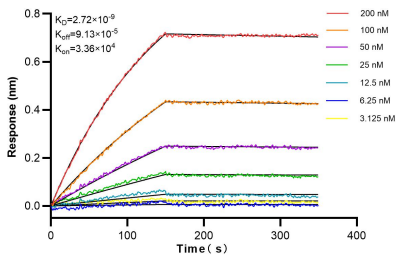
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83349-3-RR (AGPAT2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83349-3-PBS in a different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



Biolayer interferometry (BLI) kinetic assays of 83349-3-RR against Human AGPAT2 were performed. The affinity constant is 2.72 nM.