For Research Use Only

AGPAT2 Recombinant antibody

Catalog Number:83349-3-RR

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Basic Information

Catalog Number:
83349-3-RR

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG34761

GenBank Accession Number:
BC019292

GeneID (NCBI):
10555

UNIPROT ID:
O15120

Full Name:
1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase, beta)

Calculated MW:
31 kDa

Observed MW:
27 kDa

Purification Method:
Protein A purification

CloneNo.:
240153C2

Recommended Dilutions:
WB 1:2000-1:10000

Applications

Tested Applications:
WB, FC (Intra), ELISA

Species Specificity:
human

Positive Controls:

WB : HeLa cells, Jurkat cells, THP-1 cells

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 -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

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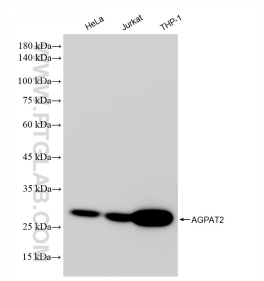
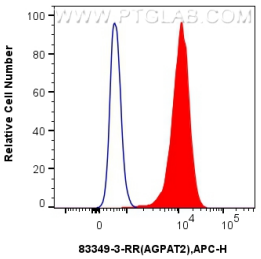
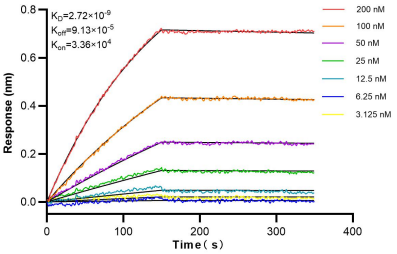
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83349-3-RR (AGPAT2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1x10^6 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).



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