

For Research Use Only

GPAT3 Polyclonal antibody

Catalog Number: 20603-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

20603-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 380 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14579

GenBank Accession Number:

BC006236

GeneID (NCBI):

84803

UNIPROT ID:

Q53EU6

Full Name:

1-acylglycerol-3-phosphate O-acyltransferase 9

Calculated MW:

49 kDa

Observed MW:

49 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:3000

IHC: 1:50-1:400

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: rat kidney tissue, HeLa cells, HT-1080 cells

IHC: human kidney tissue, human liver tissue

IF/ICC: HepG2 cells,

FC (Intra): HepG2 cells,

Background Information

GPAT3, also known as AGPAT9, is a member of the lysophosphatidic acid acyltransferase protein family. GPAT3 is an enzyme that catalyzes the conversion of glycerol-3-phosphate to lysophosphatidic acid in the synthesis of triacylglycerol.

Notable Publications

Author	Pubmed ID	Journal	Application
Meng Shi	33664495	Nat Cell Biol	WB
Mingming Gao	31873720	Hum Mol Genet	WB
Anders Gudiksen	40157624	Mitochondrion	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

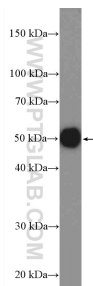
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

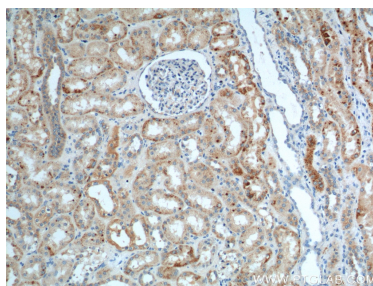
E: proteintech@ptglab.com
W: ptglab.com

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

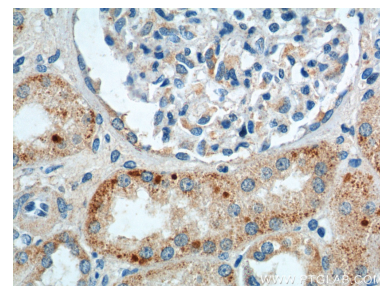
Selected Validation Data



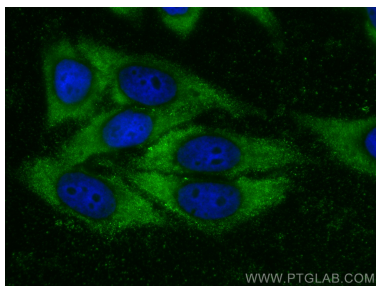
rat kidney tissue were subjected to SDS PAGE followed by western blot with 20603-1-AP (AGPAT9 Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



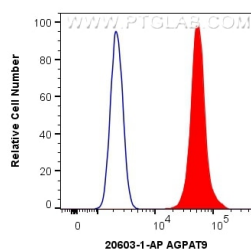
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 20603-1-AP (AGPAT9 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 20603-1-AP (AGPAT9 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using AGPAT9 antibody (20603-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human AGPAT9 (20603-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).