

For Research Use Only

GNPNAT1 Polyclonal antibody

Catalog Number: 16282-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number: 16282-1-AP	GenBank Accession Number: BC012179	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 400 µg/ml by Nanodrop and 260 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 64841	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200
Source: Rabbit	Full Name: glucosamine-phosphate N-acetyltransferase 1	
Isotype: IgG	Calculated MW: 184 aa, 21 kDa	
Immunogen Catalog Number: AG9375	Observed MW: 21-23 kDa	

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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: MCF-7 cells, mouse large intestine tissue, MDA-MB-231 cells, mouse colon tissue

IP: mouse large intestine tissue,

IHC: human liver tissue,

Background Information

Glucosamine-6 phosphate-N-acetyl Transferase (GNPNAT1) is a key enzyme in the hexosamine biosynthetic pathway. It converts D-glucosamine 6-phosphate to N-acetyl-D-glucosamine 6-phosphate, the acetylation step allowing carbon and nitrogen enter into the hexosamine biosynthetic pathway. Recently inhibition of GNPNAT1 has been reported to promote proliferation and aggressiveness of castration-resistant prostate cancer. (27194471) GNPNAT1 is a small dimeric protein localized in the Golgi and endosome membranes.

Notable Publications

Author	Pubmed ID	Journal	Application
Akash K Kaushik	27194471	Nat Commun	WB,IHC
Wenting Liu	33842535	Front Mol Biosci	IHC
Shicong Song	38139429	Int J Mol Sci	WB

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

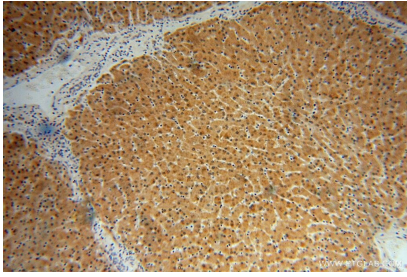
For technical support and original validation data for this product please contact:

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

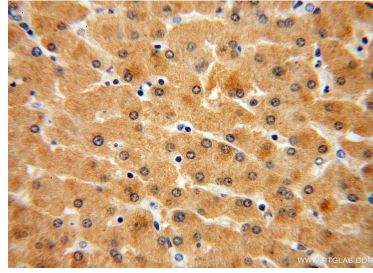
E: proteintech@ptglab.com
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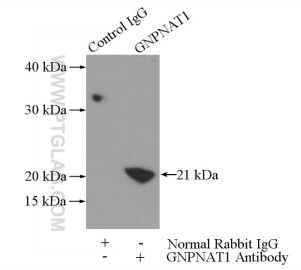
Selected Validation Data



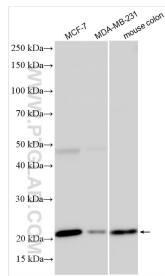
Immunohistochemical analysis of paraffin-embedded human liver using 16282-1-AP (GNPNAT1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 16282-1-AP (GNPNAT1 antibody) at dilution of 1:100 (under 40x lens).



IP Result of anti-GNPNAT1 (IP:16282-1-AP, 3 μ g; Detection:16282-1-AP 1:300) with mouse large intestine tissue lysate 3200 μ g.



Various lysates were subjected to SDS PAGE followed by western blot with 16282-1-AP (GNPNAT1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.