

For Research Use Only

# GNPNAT1 Polyclonal antibody

Catalog Number: 16282-1-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

16282-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 260 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9375

### GenBank Accession Number:

BC012179

### GeneID (NCBI):

64841

### UNIPROT ID:

Q96EK6

### Full Name:

glucosamine-phosphate N-acetyltransferase 1

### Calculated MW:

184 aa, 21 kDa

### Observed MW:

21-23 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### 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
Rajina Shakya	39464080	bioRxiv	WB,IF

## 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

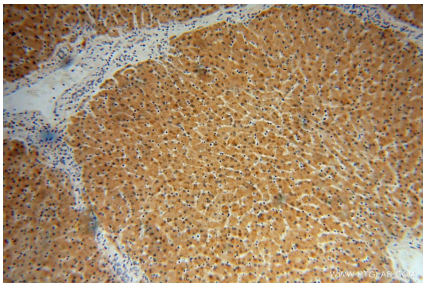
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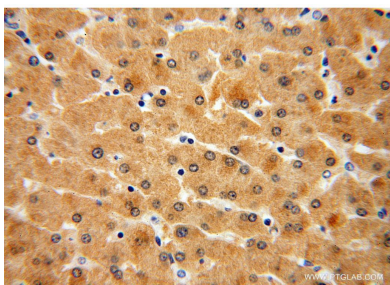
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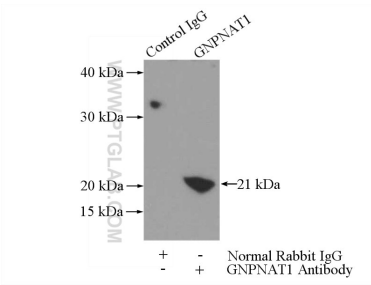
Selected Validation Data



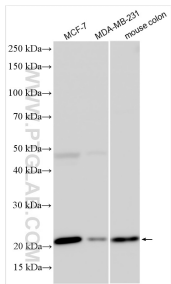
Immunohistochemical analysis of paraffin-embedded human liver using 16282-1-AP (GNPNAT1 antibody) at dilution of 1:100 (under 10x lens).



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-GNPAT1 (IP:16282-1-AP, 3ug; Detection:16282-1-AP 1:300) with mouse large intestine tissue lysate 3200ug.



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.