For Research Use Only

## GNPNAT1 Polyclonal antibody

Catalog Number:16282-1-AP

Featured Product

8 Publications

Antibodies | ELISA kits | Proteins www.ptglab.com

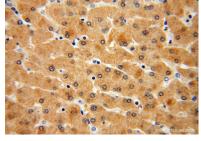
Basic Information	Catalog Number: 16282-1-AP	GenBank Accession BC012179	Number:	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):		Recommended Dilutions:	
	400 µg/ml			WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
	Source: UNIPROT ID:				
	Rabbit	Q96EK6		IHC 1:20-1:200	
	Isotype: IgG	Full Name: glucosamine-phosp	phate N-		
	Immunogen Catalog Number: AG9375	acetyltransferase 1			
		Calculated MW: 184 aa, 21 kDa			
		Observed MW: 21-23 kDa			
Applications	WB, IP, IHC, ELISA WB : M Cited Applications: MB-23		Positive Cor	itrols:	
				8 : MCF-7 cells, mouse large intestine tissue, MDA 3-231 cells, mouse colon tissue	
	WB, IHC, IF		IP : mouse la	rge intestine tissue,	
	Species Specificity: human, mouse, rat	IH( 'huma		an liver tissue,	
	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				
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 habeen 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 Jou	ırnal	Application	
	Akash K Kaushik	27194471 Nat	t Commun	WB,IHC	
	Wenting Liu	33842535 Fro	nt Mol Biosci	IHC	
	Rajina Shakya	39464080 bio	Rxiv	WB,IF	
Storage	Storage:				

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

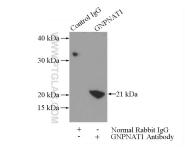
## Selected Validation Data



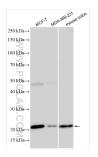
Immunohistochemical analysis of paraffinembedded human liver using 16282-1-AP (GNPNAT1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffinembedded 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, 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.