

For Research Use Only

GCNT2 Polyclonal antibody

Catalog Number: 18118-1-AP

2 Publications



Basic Information

Catalog Number: 18118-1-AP	GenBank Accession Number: BC074801	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 300 ug/ml by Nanodrop and 147 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2651	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8NOV5	
Isotype: IgG	Full Name: glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group)	
Immunogen Catalog Number: AG12635	Calculated MW: 400 aa, 46 kDa	
	Observed MW: 46 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB	WB : mouse kidney tissue, HEK-293 cells
Species Specificity: human, mouse, rat	IHC : human liver tissue, human colon tissue, human breast cancer tissue, mouse liver tissue
Cited Species: human	
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

GCNT2 (N-acetylglucosaminyl transferase) catalyzes the transfer of N-acetylglucosamine to the carbon-6 position of galactose. The loss of GCNT2 expression and corresponding loss of I-antigen in melanoma cells has profound effects on key oncogenic signaling pathways, including integrin-mediated signaling pathways critical for metastasis (PMID: 33660254, 30135430). Alterations in GCNT2 expression have now been associated with multiple malignancies, with high GCNT2 promoting tumor progression in a majority of investigated cancers. Three GCNT2 splicing variants GCNT2A, -B, and -C, which differ at exon 1 but have identical exon 2 and 3 coding regions, are expressed differentially in specific tissues (PMID: 15161861). GCNT2C determines the expression of the blood group I antigen in erythrocytes.

Notable Publications

Author	Pubmed ID	Journal	Application
Yannan Qin	28100567	Glycobiology	WB
Yuan Zhou	38849695	Cell Biochem Biophys	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

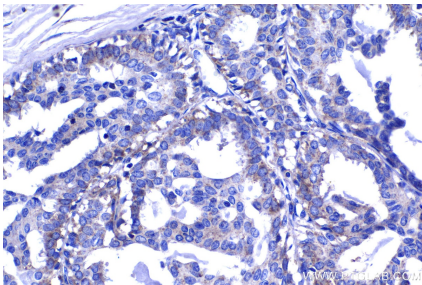
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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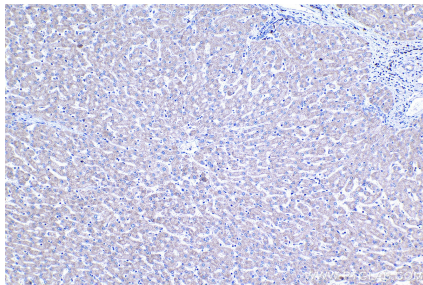
Selected Validation Data



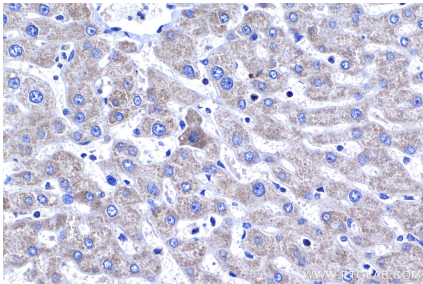
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 18118-1-AP (GCNT2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



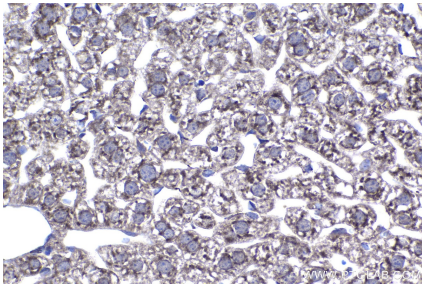
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18118-1-AP (GCNT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18118-1-AP (GCNT2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18118-1-AP (GCNT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 18118-1-AP (GCNT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).