

## GCNT2 Polyclonal antibody

Catalog Number: 18118-1-AP

2 Publications

## Basic Information

## Catalog Number:

18118-1-AP

## Size:

450 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG12635

## GenBank Accession Number:

BC074801

## GeneID (NCBI):

2651

## UNIPROT ID:

Q8NOV5

## Full Name:

glucosaminyl (N-acetyl) transferase 2,

I-branching enzyme (I blood group)

## Calculated MW:

400 aa, 46 kDa

## Observed MW:

46 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

## Tested Applications:

WB, IHC, ELISA

## Cited Applications:

WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human

## Positive Controls:

WB : mouse kidney tissue, HEK-293 cells

IHC : human liver tissue, human colon tissue, human breast cancer tissue, mouse liver tissue

**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 2, N-acetylglucosaminyl (N-acetyl) 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

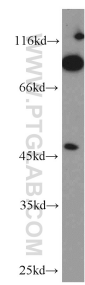
For technical support and original validation data for this product please contact:

T: 4006900926

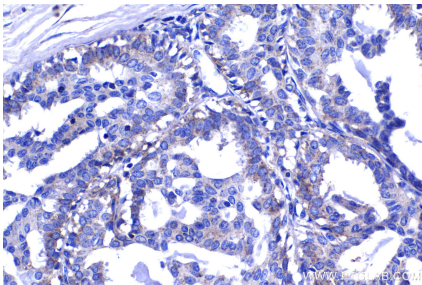
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

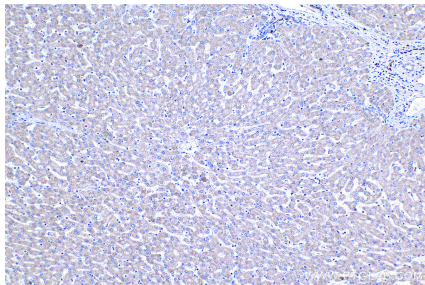
Selected Validation Data



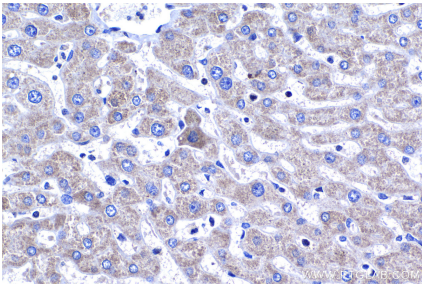
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 18118-1-AP (GCNT2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



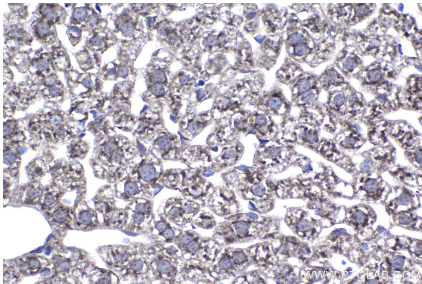
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18118-1-AP (GCNT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).