

For Research Use Only

# B3GNT5 Polyclonal antibody

Catalog Number: 20422-1-AP

3 Publications



## Basic Information

Catalog Number:

20422-1-AP

Size:

150ul, Concentration: 200 ug/ml by Nanodrop and 187 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14246

GenBank Accession Number:

BC028058

GeneID (NCBI):

84002

UNIPROT ID:

Q9BYGO

Full Name:

UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5

Calculated MW:

378 aa, 44 kDa

Observed MW:

44 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB: mouse lung tissue, MCF-7 cells

IHC: human lung 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

B3GNT5 (UDP-GlcNAc:β-Gal β-1,3-N-acetylglucosaminyltransferase 5) is a glycosyltransferase that transfers an N-acetylglucosamine (GlcNAc) from uridine diphosphate (UDP)-GlcNAc to galactose at the nonreducing end of carbohydrate chain. B3GNT5 is required for tumorigenicity of breast cancer and glycosylation of B3GNT5 is critical for its protein stabilization (PMID: 35526049). B3GNT5 was highly expressed in human GBM and glioma cell lines in culture, and was associated with poor patient survival (PMID: 32677340). B3GNT5 was N-glycosylated, and glycosylation of B3GNT5 stabilized its protein for non-glycosylated B3GNT5 protein degraded more rapidly than glycosylated form (PMID: 35526049).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhenzhen Guo	32575164	J Cell Mol Med	IHC
Wei Yao	39319269	iScience	WB, IHC
Jicheng Yang	36724073	Cell Rep	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

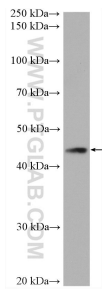
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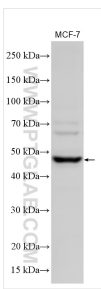
E: proteintech@ptglab.com  
W: ptglab.com

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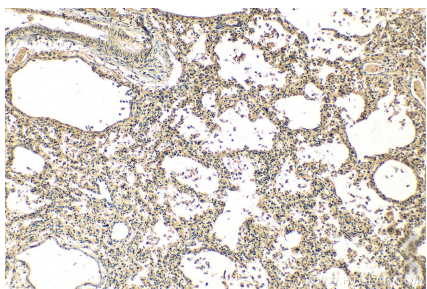
## Selected Validation Data



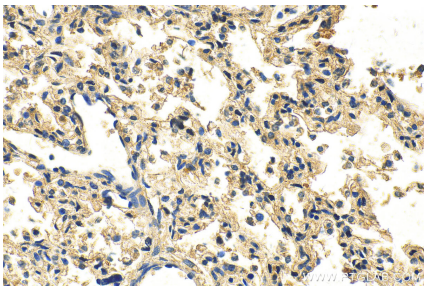
mouse lung tissue were subjected to SDS PAGE followed by western blot with 20422-1-AP (B3GNT5 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 20422-1-AP (B3GNT5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 20422-1-AP (B3GNT5 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 lung tissue slide using 20422-1-AP (B3GNT5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).