

For Research Use Only

# B3GNT7 Polyclonal antibody

Catalog Number: 22879-1-AP



## Basic Information

<b>Catalog Number:</b> 22879-1-AP	<b>GenBank Accession Number:</b> BC148680	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 700 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 93010	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:100-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8NFLO	
<b>Isotype:</b> IgG	<b>Full Name:</b> UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	
<b>Immunogen Catalog Number:</b> AG18890	<b>Calculated MW:</b> 330 aa, 37 kDa	
	<b>Observed MW:</b> 40-46 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

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:** Jurkat cells, COLO 320 cells, mouse placenta tissue

**IHC:** human colon cancer tissue, human placenta tissue

## Background Information

B3GNT7, the glycosyltransferase gene that was most significantly upregulated by IL-22 treatment, encodes an N-acetylglucosaminyltransferase involved in the biosynthesis of polyLacNAc repeats of keratan sulfate (PMID: 34864058). B3GNT7 was initially identified in 2002 and is notable for high expression in healthy intestinal epithelial cells (PMID: 38886669). Overexpressed B3GNT7 were correlated with poor prognosis in breast cancer patients based on public datasets. B3GNT7 was shown to be a potential biomarker for unfavorable outcomes and therapeutic target of breast cancer (PMID: 37740763).

## 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

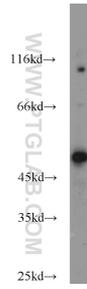
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

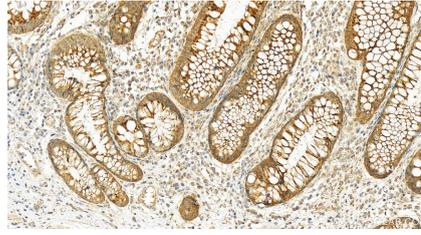
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 22879-1-AP (B3GNT7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22879-1-AP (B3GNT7 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).