

## B3GNT6 Polyclonal antibody

Catalog Number: 21291-1-AP

5 Publications

## Basic Information

<b>Catalog Number:</b> 21291-1-AP	<b>GenBank Accession Number:</b> BC103910	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 600 ug/ml	<b>GeneID (NCBI):</b> 192134	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q6ZMBO	
<b>Isotype:</b> IgG	<b>Full Name:</b> UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core 3 synthase)	
<b>Immunogen Catalog Number:</b> AG15825	<b>Calculated MW:</b> 384 aa, 43 kDa	
	<b>Observed MW:</b> 43 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF	<b>WB :</b> mouse colon tissue, mouse small intestine tissue, mouse testis tissue
<b>Species Specificity:</b> human, mouse	<b>IHC :</b> human colon cancer tissue, human stomach cancer tissue
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

The B3GNT6 protein, also known as core 3 synthase, is a member of the O-GlcNAc transferase (OGT) family and adds an N-acetylglucosamine to N-acetylgalactosamine-modified serine or threonine. The B3GNT6 protein is responsible for the formation of the core 3 structure of O-glycans, which are important components of mucin-type glycoproteins. This process is known as the protein O-GlcNAcylation modification. B3GNT6 expression has been reported to be largely downregulated in gastric and colorectal cancers. B3GNT6 has 3 isoforms with the molecular mass of 29 and 43 kDa. (PMID: 35387659)

## Notable Publications

Author	Pubmed ID	Journal	Application
Thomas G Biel	35402630	Mol Ther Methods Clin Dev	WB
J Ye	28745318	Oncogene	WB, IHC
Bo Peng	37455358	Int J Food Sci Nutr	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

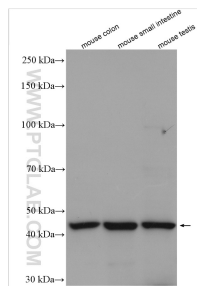
For technical support and original validation data for this product please contact:

T: 4006900926

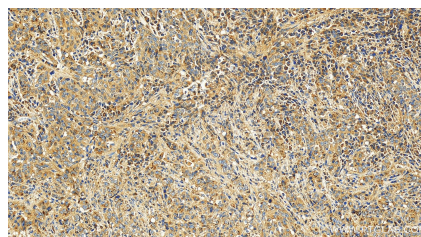
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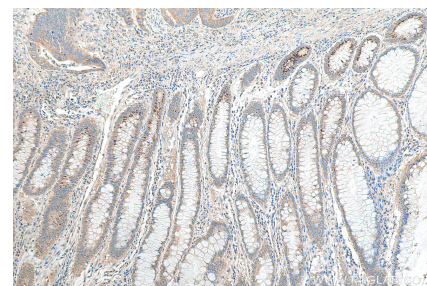
## Selected Validation Data



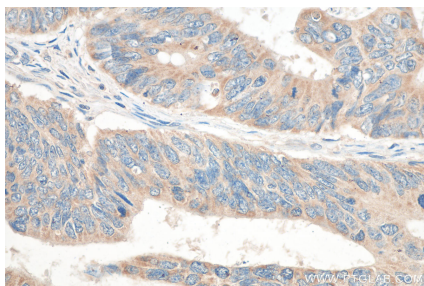
Various lysates were subjected to SDS PAGE followed by western blot with 21291-1-AP (B3GNT6 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 21291-1-AP (B3GNT6 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 21291-1-AP (B3GNT6 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 colon cancer tissue slide using 21291-1-AP (B3GNT6 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).