

## Product datasheet for **CF505283**

### **B3GNT1 (B3GNT2) Mouse Monoclonal Antibody [Clone ID: OTI3A9]**

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3A9
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human B3GNT2(NP_006568) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45.8 kDa
Gene Name:	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
Database Link:	<a href="#">NP_006568</a> <a href="#">Entrez Gene 53625 Mouse</a> <a href="#">Entrez Gene 305571 Rat</a> <a href="#">Entrez Gene 10678 Human</a> <a href="#">Q9NY97</a>



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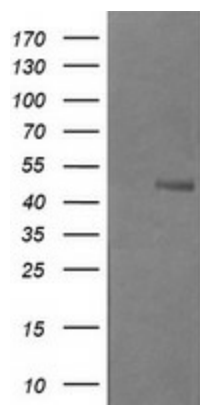
**Background:** This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II transmembrane protein. It prefers the substrate of lacto-N-neotetraose, and is involved in the biosynthesis of poly-N-acetyllactosamine chains. [provided by RefSeq, Jul 2008]

**Synonyms:** 3-Gn-T1; 3-Gn-T2; B3GN-T2; B3GNT; B3GNT-2; B3GNT1; beta-1; beta3Gn-T1; beta3Gn-T2; BETA3GNT; BGnT-2

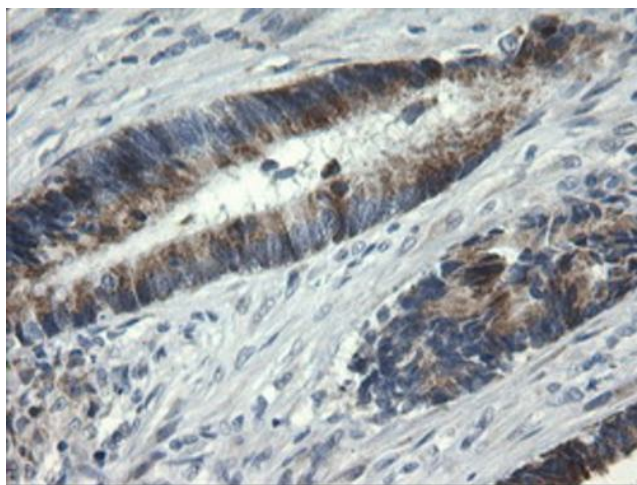
**Protein Families:** Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways

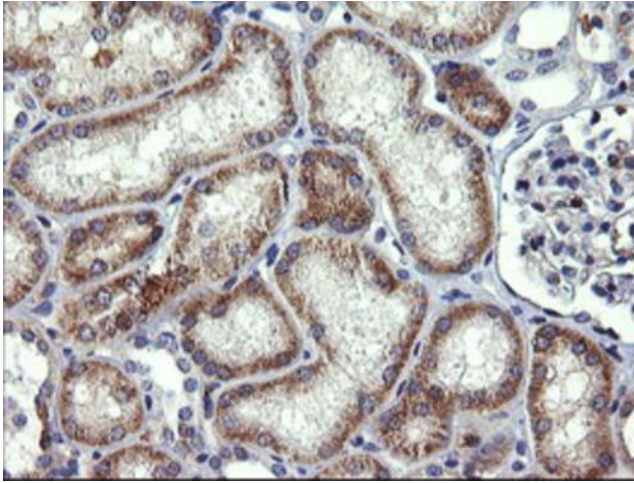
### Product images:



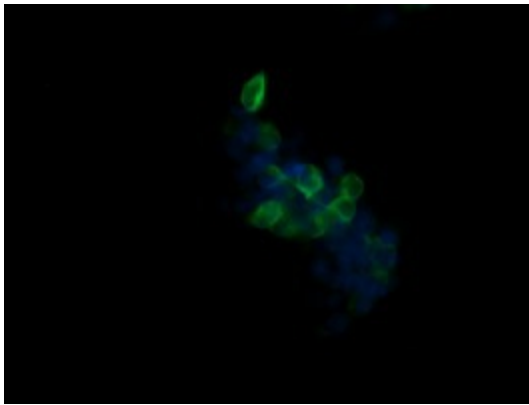
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY B3GNT2 (Cat# [RC208100], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-B3GNT2 (Cat# [TA505283]). Positive lysates [LY416552] (100ug) and [LC416552] (20ug) can be purchased separately from OriGene.



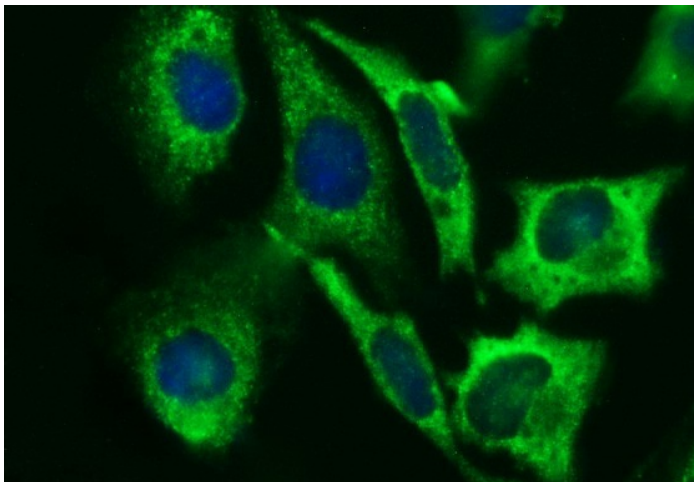
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-B3GNT2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA505283])



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-B3GNT2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA505283])



Anti-B3GNT2 mouse monoclonal antibody ([TA505283]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY B3GNT2 ([RC208100]).



Immunofluorescent staining of HeLa cells using anti-B3GNT2 mouse monoclonal antibody ([TA505283]).