

# B3gnt1 Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI12713

## Product Information

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Application       | WB                                                             |
| Primary Accession | <a href="#">Q8BWP8</a>                                         |
| Other Accession   | <a href="#">NM_175383</a> , <a href="#">NP_780592</a>          |
| Reactivity        | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine |
| Predicted         | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine |
| Host              | Rabbit                                                         |
| Clonality         | Polyclonal                                                     |
| Calculated MW     | 47384                                                          |

## Additional Information

|                          |                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID                  | 108902                                                                                                                                                                                                                                                                           |
| Alias Symbol             | 1500032M01Rik, B3gnt6, BETA3GNT1, iGAT, iGNT                                                                                                                                                                                                                                     |
| Other Names              | Beta-1, 4-glucuronyltransferase 1, I-beta-1, 3-N-acetylglucosaminyltransferase, iGNT, N-acetyllactosaminide beta-1, 3-N-acetylglucosaminyltransferase, Poly-N-acetyllactosamine extension enzyme, UDP-GlcNAc:betaGal beta-1, 3-N-acetylglucosaminyltransferase 1, B3gnt1, B3gnt6 |
| Format                   | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                                                                                                                                                |
| Reconstitution & Storage | Add 50 ul of distilled water. Final anti-B3gnt1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.                                                                                  |
| Precautions              | B3gnt1 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                                                |

## Protein Information

|          |                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | B4gat1 {ECO:0000250 UniProtKB:O43505}                                                                                                                                                                                                                                                                                                                                                                   |
| Synonyms | B3gnt1, B3gnt6                                                                                                                                                                                                                                                                                                                                                                                          |
| Function | Beta-1,4-glucuronyltransferase involved in O-mannosylation of alpha-dystroglycan (DAG1) (PubMed: <a href="#">23217742</a> , PubMed: <a href="#">25279699</a> ). Transfers a glucuronic acid (GlcA) residue onto a xylose (Xyl) acceptor to produce the glucuronyl-beta-1,4-xylose-beta disaccharide primer, which is further elongated by LARGE1, during synthesis of phosphorylated O- mannosyl glycan |

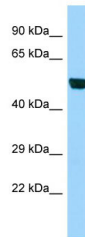
(PubMed:[25279699](#)). Phosphorylated O-mannosyl glycan is a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (PubMed:[25279699](#)). Required for axon guidance; via its function in O-mannosylation of alpha-dystroglycan (DAG1) (PubMed:[23217742](#)).

#### Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein  
Note=Localizes near the trans-Golgi apparatus  
{ECO:0000250|UniProtKB:O43505}

## Images

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Host: Rabbit  
Target Name: B3gnt1  
Sample Tissue: Mouse Testis lysates  
Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.