

DNAxPAb

Hard-to-Find  
Antibody

# B3GALT1 DNAxPab

Catalog # H00008708-W01P

Size 200 ug

## Specification

|                                |                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Rabbit polyclonal antibody raised against a full-length human B3GALT1 DNA using DNAx™ Immune technology.                                                                                                                                                                                                                                         |
| <b>Technology</b>              | <a href="#">DNAx™ Immune</a>                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen</b>               | Full-length human DNA                                                                                                                                                                                                                                                                                                                            |
| <b>Sequence</b>                | MASKVSCLYVLTVCWASALWYLSITRPTSSYTGSKPFSLTVARKNFTFGNIRTRPINPHSFEFLI<br>NEPNKCEKNIPFLVILISTTHKEFDARQAIRETWGDENNFKGIKATLFLLGKNADPVLNQMVEQES<br>QIFHDIIVEDFIDSYHNLTLKTLGMGRWVATFCSKAKYVMKTDSDIFVNMDNLYKLLKPSTKPRRRY<br>FTGYVINGGPIRDVRSKWYMPRDLYPDSNYPPFCSGTGYIFSADVAELIKTSLHTRLLHLEDVYVG<br>LCLRKLGIHPFQNSGFNHWKMAYSLCRYRRVITVHQISPEEMHRWNDMSSKKHLRC |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                           |
| <b>Reactivity</b>              | Human                                                                                                                                                                                                                                                                                                                                            |
| <b>Purification</b>            | Protein A                                                                                                                                                                                                                                                                                                                                        |
| <b>Quality Control Testing</b> | Antibody reactive against mammalian transfected lysate.                                                                                                                                                                                                                                                                                          |
| <b>Storage Buffer</b>          | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                         |

## Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

## Gene Info — B3GALT1

Entrez GeneID [8708](#)

GeneBank Accession# [NM\\_020981.2](#)

Protein Accession# [NP\\_066191.1](#)

Gene Name B3GALT1

Gene Alias MGC126594, beta3Gal-T1

Gene Description UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1

Omim ID [603093](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1:type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). This gene is expressed exclusively in the brain. The encoded protein shows strict donor substrate specificity for UDP-galactose. [provided by RefSeq]

**Other Designations** UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 1|beta-3-galt1

## Pathway

- [Glycosphingolipid biosynthesis - lacto and neolacto series](#)
- [Metabolic pathways](#)