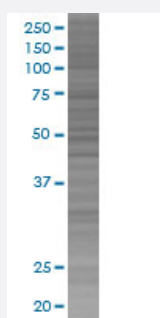


# B3GALNT1 293T Cell Transient Overexpression Lysate(Denatured)

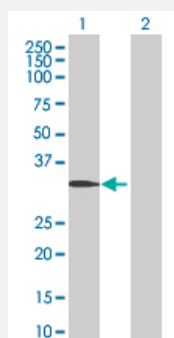
Catalog # H00008706-T01      Size 100 uL

## Applications



### SDS-PAGE Gel

B3GALT3 transfected lysate.



### Western Blot

Lane 1: B3GALT3 transfected lysate ( 39.5 KDa)

Lane 2: Non-transfected lysate.

## Specification

Transfected Cell Line	293T
Plasmid	pCMV-B3GALNT1 full-length
Host	Human
Theoretical MW (kDa)	39.5

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-B3GALNT1 antibody ([H00008706-B01](#)) by Western Blots.  
SDS-PAGE Gel  
B3GALT3 transfected lysate.  
Western Blot  
Lane 1: B3GALT3 transfected lysate ( 39.5 KDa)  
Lane 2: Non-transfected lysate.

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — B3GALNT1

**Entrez GeneID**[8706](#)**GeneBank Accession#**[BC028571.1](#)**Protein Accession#**[P1](#)**Gene Name**

B3GALNT1

**Gene Alias**

B3GALT3, GLCT3, GLOB, Gb4Cer, P, P1, beta3Gal-T3, galT3

**Gene Description**

beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)

**Omim ID**[111400 603094](#)**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). The encoded protein of this gene does not use N-acetylglucosamine as an acceptor sugar at all. Multiple transcript variants that are alternatively spliced in the 5' UTR have been described; they all encode the same protein. [provided by RefSeq]

**Other Designations**

P antigen synthase|P blood group globoside|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 1|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 3 (Globoside blood group)|UDP-GalNAc:betaGlcNAc beta-1,3-galactosaminyltransferase, polypeptide 1

**Pathway**

- [Glycosphingolipid biosynthesis - globo series](#)
- [Metabolic pathways](#)