

## B3GALT2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant B3GALT2.

Catalog # AT1252a

### Product Information

---

|                   |                           |
|-------------------|---------------------------|
| Application       | E                         |
| Primary Accession | <a href="#">O43825</a>    |
| Other Accession   | <a href="#">NM_003783</a> |
| Reactivity        | Human                     |
| Host              | mouse                     |
| Clonality         | monoclonal                |
| Isotype           | IgG2a Kappa               |
| Clone Names       | 3A6                       |
| Calculated MW     | 49213                     |

### Additional Information

---

|                    |   |
|--------------------|---|
| Gene ID            | 8707  |
| Other Names        | Beta-1, 3-galactosyltransferase 2, Beta-1, 3-GalTase 2, Beta3Gal-T2, Beta3GalT2, 241-, UDP-galactose:2-acetamido-2-deoxy-D-glucose 3beta-galactosyltransferase 2, B3GALT2 |
| Target/Specificity | B3GALT2 (NP_003774, 324 a.a. ~ 422 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.  |
| Dilution           | E~~N/A  |
| Format             | Clear, colorless solution in phosphate buffered saline, pH 7.2 .  |
| Storage            | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.  |
| Precautions        | B3GALT2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.   |

### Background

---

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 encodes a protein that functions in N-linked glycoprotein glycosylation and shows strict donor substrate specificity for UDP-galactose.

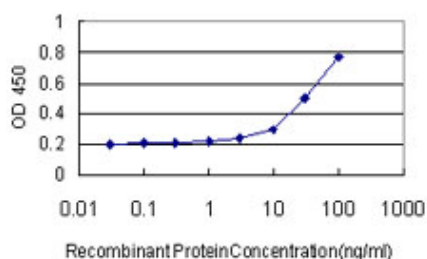
## References

---

The DNA sequence and biological annotation of human chromosome 1. Gregory SG, et al. Nature, 2006 May 18. PMID 16710414. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932. Cloning and characterization of 13 novel transcripts and the human RGS8 gene from the 1q25 region encompassing the hereditary prostate cancer (HPC1) locus. Sood R, et al. Genomics, 2001 Apr 15. PMID 11318611.

## Images

---



Detection limit for recombinant GST tagged B3GALT2 is approximately 3ng/ml as a capture antibody.

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