10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

B3GNT1 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant B3GNT1.
Catalog # AT1254a

Specification

B3GNT1 Antibody (monoclonal) (M05) - Product Information

Application	**WB, E**
Primary Accession	Q9NY97
Other Accession	NM_006577
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**46022**

B3GNT1 Antibody (monoclonal) (M05) - Additional Information

Gene ID 10678

Other Names
N-acetyllactosaminide beta-1, 3-N-acetylglucosaminyltransferase 2, Beta-1, 3-N-acetylglucosaminyltransferase 1, BGnT-1, Beta-1, 3-Gn-T1, Beta3Gn-T1, Beta-1, 3-galactosyltransferase 7, Beta-1, 3-GalTase 7, Beta3Gal-T7, Beta3GalT7, b3Gal-T7, Beta-3-Gx-T7, UDP-Gal:beta-GlcNAc beta-1, 3-galactosyltransferase 7, UDP-GlcNAc:betaGal beta-1, 3-N-acetylglucosaminyltransferase 2, BGnT-2, Beta-1, 3-Gn-T2, Beta-1, 3-N-acetylglucosaminyltransferase 2, Beta3Gn-T2, UDP-galactose:beta-N-acetylglucosamine beta-1, 3-galactosyltransferase 7, B3GNT2, B3GALT7, B3GNT1

Target/Specificity
B3GNT1 (NP_006568, 111 a.a. ~ 210 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

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
B3GNT1 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

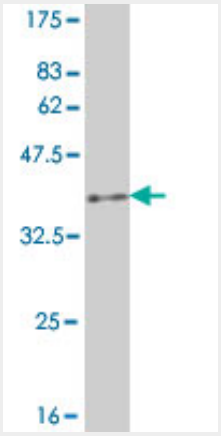
B3GNT1 Antibody (monoclonal) (M05) - Protocols

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

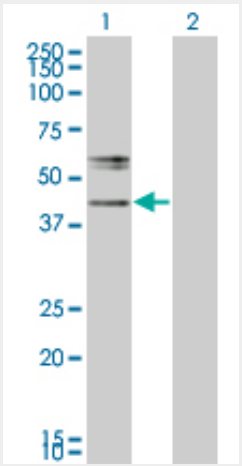
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

B3GNT1 Antibody (monoclonal) (M05) - Images



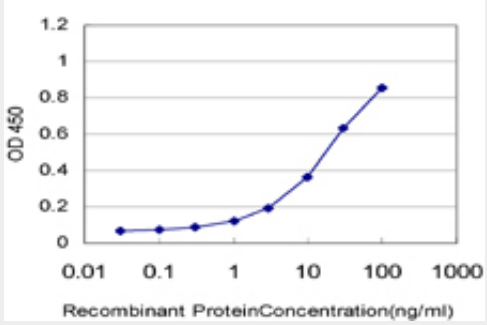
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of B3GNT1 expression in transfected 293T cell line by B3GNT1 monoclonal antibody (M05), clone 1A8.

Lane 1: B3GNT1 transfected lysate(46.022 KDa).
Lane 2: Non-transfected lysate.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Detection limit for recombinant GST tagged B3GNT1 is approximately 0.3ng/ml as a capture antibody.

B3GNT1 Antibody (monoclonal) (M05) - 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.

B3GNT1 Antibody (monoclonal) (M05) - References

Genome-wide association study of ankylosing spondylitis identifies non-MHC susceptibility loci. Australo-Anglo-American Spondyloarthritis Consortium (TASC), et al. Nat Genet, 2010 Feb. PMID 20062062.Activation of beta1,3-N-acetylglucosaminyltransferase-2 (beta3Gn-T2) by beta3Gn-T8. Possible involvement of beta3Gn-T8 in increasing poly-N-acetyllactosamine chains in differentiated HL-60 cells. Seko A, et al. J Biol Chem, 2008 Nov 28. PMID 18826941.Human plasma N-glycoproteome analysis by immunoaffinity subtraction, hydrazide chemistry, and mass spectrometry. Liu T, et al. J Proteome Res, 2005 Nov-Dec. PMID 16335952.Characterization of a cDNA encoding a protein with limited similarity to beta1, 3-N-acetylglucosaminyltransferase. Zheng H, et al. Mol Biol Rep, 2004 Sep. PMID 15560372.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.