

B3GNT1 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant B3GNT1.

Catalog # AT1254a

Product Information

Application	WB, E
Primary Accession	Q9NY97
Other Accession	NM_006577
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1A8
Calculated MW	46022

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

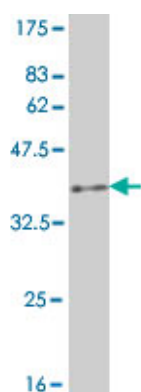
Background

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.

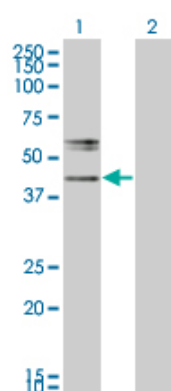
References

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-acetylglucosamine 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.

Images

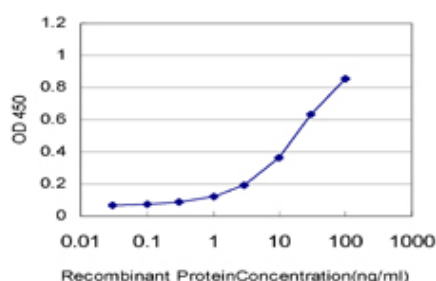


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



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.



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

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