

## **B4GALNT1 Antibody (monoclonal) (M02)**

Mouse monoclonal antibody raised against a partial recombinant B4GALNT1.

Catalog # AT1255a

### **Specification**

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#### **B4GALNT1 Antibody (monoclonal) (M02) - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q00973</a>
Other Accession	<a href="#">NM_001478</a>
Reactivity	Human, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	58882

#### **B4GALNT1 Antibody (monoclonal) (M02) - Additional Information**

Gene ID 2583

##### **Other Names**

Beta-1, 4 N-acetylgalactosaminyltransferase 1, (N-acetylneuraminyl)-galactosylglucosylceramide, GM2/GD2 synthase, GalNAc-T, B4GALNT1, GALGT, SIAT2

##### **Target/Specificity**

B4GALNT1 (NP\_001469, 30 a.a. ~ 127 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**

B4GALNT1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

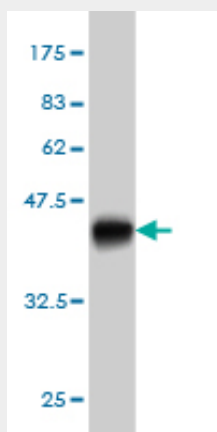
#### **B4GALNT1 Antibody (monoclonal) (M02) - Protocols**

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

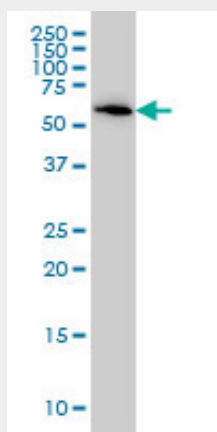
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

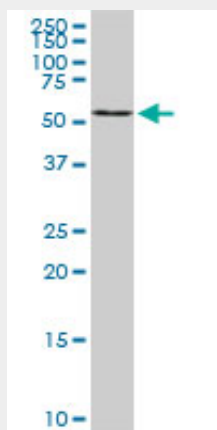
### B4GALNT1 Antibody (monoclonal) (M02) - Images



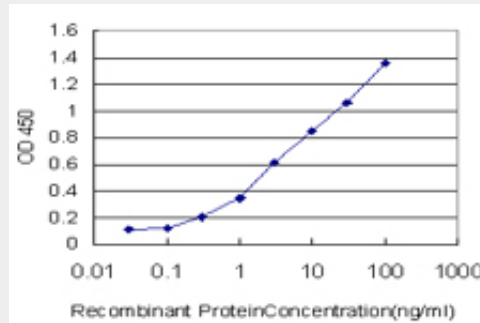
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .



B4GALNT1 monoclonal antibody (M02), clone 5F9 Western Blot analysis of B4GALNT1 expression in HeLa ( (Cat # AT1255a )



B4GALNT1 monoclonal antibody (M02), clone 5F9. Western Blot analysis of B4GALNT1 expression in PC-12 ( (Cat # AT1255a )



Detection limit for recombinant GST tagged B4GALNT1 is approximately 0.1ng/ml as a capture antibody.

### **B4GALNT1 Antibody (monoclonal) (M02) - Background**

GM2 and GD2 gangliosides are sialic acid-containing glycosphingolipids. GalNAc-T is the enzyme involved in the biosynthesis of G(M2) and G(D2) glycosphingolipids. GalNAc-T catalyzes the transfer of GalNAc into G(M3) and G(D3) by a beta-1,4 linkage, resulting in the synthesis of G(M2) and G(D2), respectively.

### **B4GALNT1 Antibody (monoclonal) (M02) - References**

Analysis of GD2/GM2 synthase mRNA as a biomarker for small cell lung cancer. Chen LC, et al. Lung Cancer, 2010 Feb. PMID 19457569. Glycosyltransferase B4GALNT1 and type 1 diabetes in Croatian population: clinical investigation. Boraska V, et al. Clin Biochem, 2009 Jun. PMID 19318031. Evaluation of SAT-1, SAT-2 and GalNAcT-1 mRNA in colon cancer by real-time PCR. Gornati R, et al. Mol Cell Biochem, 2007 Apr. PMID 17119850. 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. Disulfide bonds of GM2 synthase homodimers. Antiparallel orientation of the catalytic domains. Li J, et al. J Biol Chem, 2000 Dec 29. PMID 11018043.