



# GM2/GD2 synthase Monoclonal Antibody

Catalog No	YP-mAb-02645
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	B4GALNT1
Protein Name	Beta-1,4 N-acetylgalactosaminyltransferase 1
Immunogen	The antiserum was produced against synthesized peptide derived from human B4GALNT1. AA range:281-330
Specificity	GM2/GD2 synthase Monoclonal Antibody detects endogenous levels of GM2/GD2 synthase protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	B4GALNT1; GALGT; SIAT2; Beta-1; 4 N-acetylgalactosaminyltransferase 1; (N-acetylneuraminyl)-galactosylglucosylceramide; GM2/GD2 synthase; GalNAc-T
Observed Band	60kD
Cell Pathway	Golgi apparatus membrane ; Single-pass type II membrane protein .
Tissue Specificity	Brain,
Function	catalytic activity:UDP-N-acetyl-D-galactosamine + 1-O-(O-(N-acetyl-alpha-neuraminosyl)-(2->3)-O-beta-D-galactopyranosyl-(1->4)-beta-D-glucopyranosyl)-ceramide = UDP + 1-O-(O-2-(acetyl-amino)-2-deoxy-beta-D-galactopyranosyl-(1->4)-O-(N-acetyl-alpha-neuraminosyl)-(2->3))-O-beta-D-galactopyranosyl-(1->4)-beta-D-glucopyranosyl)-ceramide.;function:Involved in the biosynthesis of gangliosides GM2, GD2 and GA2.;online information:Beta-1,4 N-acetylgalactosaminyltransferase 1,online information:GlycoGene database,pathway:Protein modification; protein glycosylation.;similarity:Belongs to the glycosyltransferase 2 family.;subunit:Homodimer; disulfide-linked.,
Background	beta-1,4-N-acetyl-galactosaminyltransferase 1(B4GALNT1) Homo sapiens 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. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2013],

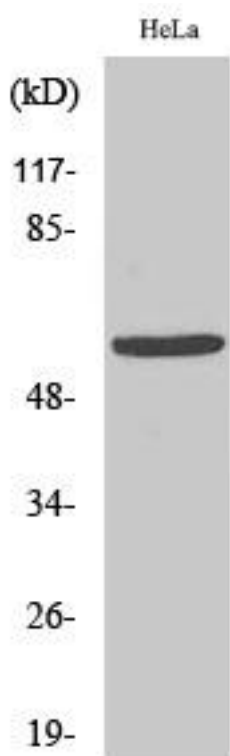
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western Blot analysis of various cells using GM2/GD2 synthase Monoclonal Antibody