



GM2/GD2 synthase Polyclonal Antibody

Catalog No	YP-Ab-02645
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	B4GALNT1
Immunogen	The antiserum was produced against synthesized peptide derived from human B4GALNT1. AA range:281-330
Specificity	GM2/GD2 synthase Polyclonal 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	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	B4GALNT1;GALGT;GalNAc T;GALNACT;GM2/GD2 synthase;SIAT2;Beta-1,4 N-acetylgalactosaminyltransferase 1;(N-acetylneuraminyl)-galactosylglucosylceramide;GalNAc-T
Observed Band	60kD
Calculated Molecular Weight	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],

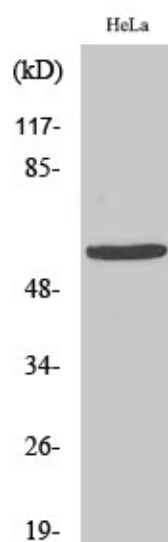
matters needing attention

Avoid repeated freezing and thawing!

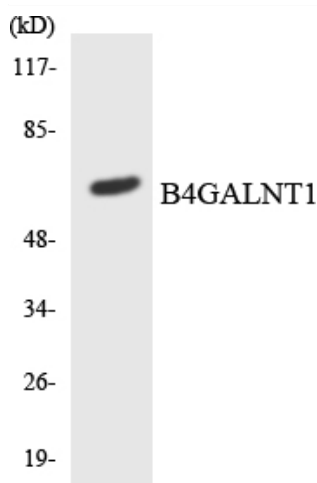
Usage suggestions

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 Polyclonal Antibody



Western blot analysis of the lysates from COLO205 cells using B4GALNT1 antibody.