

Product Name: GM2/GD2 synthase Rabbit Polyclonal Antibody
Catalog #: APRab11529



Summary

Production Name	GM2/GD2 synthase Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	B4GALNT1
Alternative Names	B4GALNT1; GALGT; SIAT2; Beta-1; 4 N-acetylgalactosaminyltransferase 1; (N-acetylneuraminy)-galactosylglucosylceramide; GM2/GD2 synthase; GalNAc-T
Gene ID	2583.0
SwissProt ID	Q00973.The antiserum was produced against synthesized peptide derived from human B4GALNT1. AA range:281-330

Application

Dilution Ratio	WB 1:500-1:2000, ELISA 1:5000.Not yet tested in other applications.
Molecular Weight	60kDa

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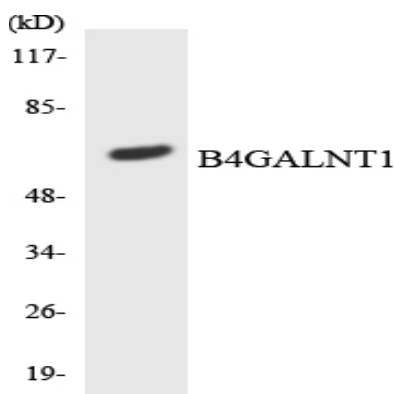
Background

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], 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-(acetylamino)-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.,

Research Area

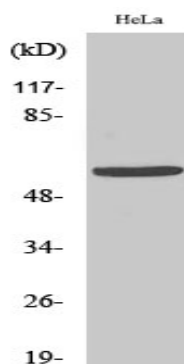
Glycosphingolipid biosynthesis;

Image Data



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

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

Note

For research use only.