

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



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## Summary

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

## Performance

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

## Immunogen

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

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:5000.
<b>Molecular Weight</b>	60kD

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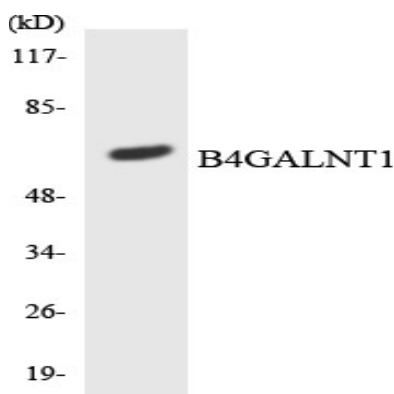
## Background

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

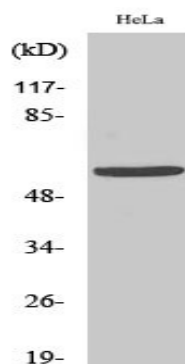
Glycosphingolipid biosynthesis;

## 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.