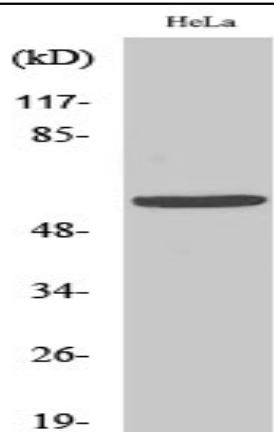


GM2/GD2 synthase Polyclonal Antibody

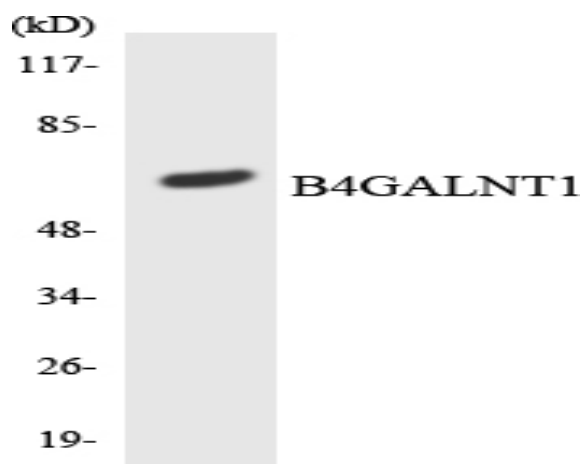
Catalog No :	YT1936
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	GM2/GD2 synthase
Fields :	>>Sphingolipid metabolism;>>Glycosphingolipid biosynthesis - ganglio series;>>Metabolic pathways
Gene Name :	B4GALNT1
Protein Name :	Beta-1,4 N-acetylgalactosaminyltransferase 1
Human Gene Id :	2583
Human Swiss Prot No :	Q00973
Mouse Gene Id :	14421
Mouse Swiss Prot No :	Q09200
Rat Gene Id :	64828
Rat Swiss Prot No :	Q10468
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
Dilution :	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	60kD
Cell Pathway :	Glycosphingolipid biosynthesis;
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],
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-(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.,
Subcellular Location :	Golgi apparatus membrane ; Single-pass type II membrane protein .
Expression :	Brain,

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.