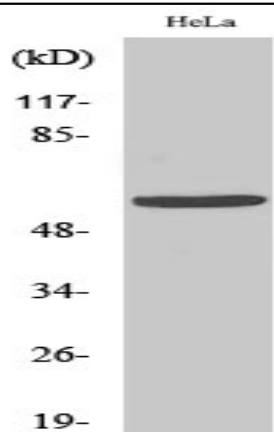


GM2/GD2 synthase Polyclonal Antibody

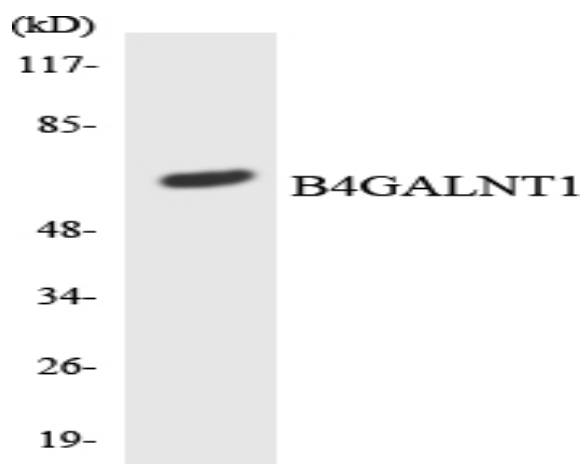
| | |
|------------------------------|--|
| Catalog No : | YT1936 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | WB;ELISA |
| Target : | GM2/GD2 synthase |
| Fields : | >>Sphingolipid metabolism;>>Glycosphingolipid biosynthesis - ganglio series;>>Metabolic pathways |
| Gene Name : | B4GALNT1 |
| 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, |
| Sort : | 6665 |
| No4 : | 1 |
| Host : | Rabbit |
| Modifications : | Unmodified |

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.