BT LAB
Bioassay Technology Laboratory
Optimize Your Research

Beta-1,3-Gal-T4 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP09781
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human B3GALT4. AA range:181-230
Mol wt	41537
Species reactivity	Human
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	beta-1,3-Gal-T4 Antibody
Synonyms	B3GALT4; GALT4; Beta-1; 3-galactosyltransferase 4; Beta-1,3-GalTase 4; Beta3Gal-T4; Beta3GalT4; GalT4; b3Gal-T4; Gal-T2; Ganglioside galactosyltransferase; UDP-galactose:beta-N-acetyl-galactosamine-be

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

B3GALT4 is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1: type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). This gene is oriented telomere to centromere in close proximity to the ribosomal protein S18 gene. The functionality of the encoded protein is limited to ganglioseries glycolipid biosynthesis.

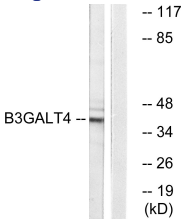
Recommended Dilution

WB: 1: 500 - 1: 2000

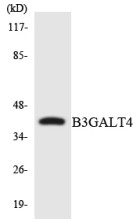
ELISA: 1: 10000

Not yet tested in other applications.

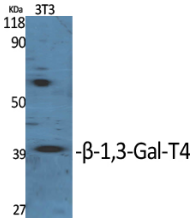
Images



Western blot analysis of lysates from Jurkat cells, using B3GALT4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from 293 cells using B3GALT4 antibody.



Western Blot analysis of various cells using β-1,3-Gal-T4 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Storage

-20°C for one year

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