

Beta-1,3-Gal-T1 Polyclonal Antibody

Description

Product type Primary Antibody

Code BT-AP09779

Host Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human B3GALT1. AA range:61-110

Mol wt 37993

Species reactivity Human, Mouse

Clonality Polyclonal

Recommended application WB, ELISA

Concentration 1 mg/m

Full name beta-1,3-Gal-T1 Antibody

Synonyms B3GALT1; Beta-1; 3-galactosyltransferase 1; Beta-1,3-GalTase 1; Beta3Gal-T1; Beta3GalT1; UDP-

galactose:beta-N-acetyl-glucosamine-beta-1,3-galactosyltransferase 1

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

Background

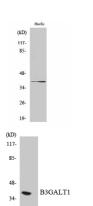
B3GALT1 is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, 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 expressed exclusively in the brain. The encoded protein shows strict donor substrate specificity for UDP-galactose.

Recommended Dilution

WB: 1: 500 - 1: 2000 ELISA: 1: 20000

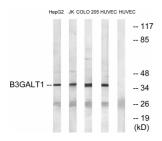
Not yet tested in other applications.

Images



Western Blot analysis of various cells using β -1,3-Gal-T1 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Western blot analysis of the lysates from HUVECcells using B3GALT1 antibody.



Western blot analysis of lysates from HUVEC, COLO, Jurkat, and HepG2 cells, using B3GALT1 Antibody. The lane on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

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