



# $\beta$ -1,3-Gal-T4 rabbit pAb

Cat No.:ES3748

For research use only

## Overview

|                                |   |
|--------------------------------|---|
| <b>Product Name</b>            | $\beta$ -1,3-Gal-T4 rabbit pAb  |
| <b>Host species</b>            | Rabbit  |
| <b>Applications</b>            | WB;ELISA  |
| <b>Species</b>                 | Human;Rat;Mouse;  |
| <b>Cross-Reactivity</b>        |   |
| <b>Recommended dilutions</b>   | Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.   |
| <b>Immunogen</b>               | The antiserum was produced against synthesized peptide derived from human B3GALT4. AA range:181-230   |
| <b>Specificity</b>             | $\beta$ -1,3-Gal-T4 Polyclonal Antibody detects endogenous levels of $\beta$ -1,3-Gal-T4 protein.   |
| <b>Formulation</b>             | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Storage</b>                 | Store at -20°C. Avoid repeated freeze-thaw cycles.  |
| <b>Protein Name</b>            | Beta-1,3-galactosyltransferase 4  |
| <b>Gene Name</b>               | B3GALT4   |
| <b>Cellular localization</b>   | Golgi apparatus membrane ; Single-pass type II membrane protein .   |
| <b>Purification</b>            | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                       |
| <b>Clonality</b>               | Polyclonal  |
| <b>Concentration</b>           | 1 mg/ml   |
| <b>Observed band</b>           | 42kD  |
| <b>Human Gene ID</b>           | 8705  |
| <b>Human Swiss-Prot Number</b> | O96024  |
| <b>Alternative Names</b>       | B3GALT4; GALT4; Beta-1; 3-galactosyltransferase 4; Beta-1,3-GalTase 4; Beta3Gal-T4; Beta3GalT4; GalT4; b3Gal-T4; Gal-T2; Ganglioside galactosyltransferase; |

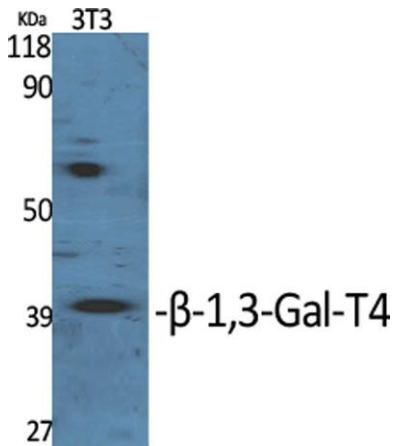




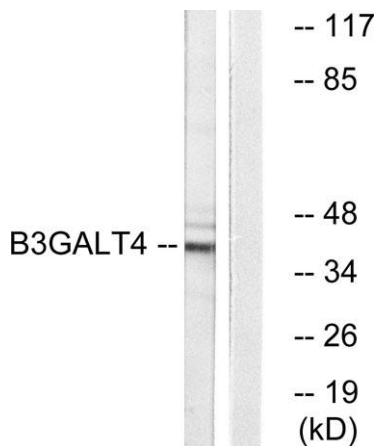
### Background

UDP-galactose:beta-N-acetyl-galactosamine-beta-1,3-galactosyltransferase

This gene 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 beta3



Western Blot analysis of various cells using  $\beta$ -1,3-Gal-T4 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

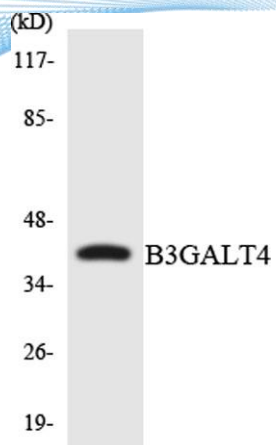


Western blot analysis of lysates from Jurkat cells, using B3GALT4 Antibody. The lane on the right is blocked with the synthesized peptide.





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



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