

β -1,3-Gal-T1 rabbit pAb**Cat#: orb766622 (Manual)**

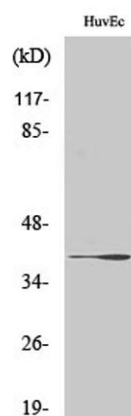
For research use only. Not intended for diagnostic use.

| | |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Product Name | β -1,3-Gal-T1 rabbit pAb |
| Host species | Rabbit |
| Applications | WB;ELISA |
| Species Cross-Reactivity | Human;Mouse |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human B3GALT1. AA range:61-110 |
| Specificity | β -1,3-Gal-T1 Polyclonal Antibody detects endogenous levels of β -1,3-Gal-T1 protein. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Beta-1,3-galactosyltransferase 1 |
| Gene Name | B3GALT1 |
| Cellular localization | Golgi apparatus membrane ; Single-pass type II membrane protein . |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |

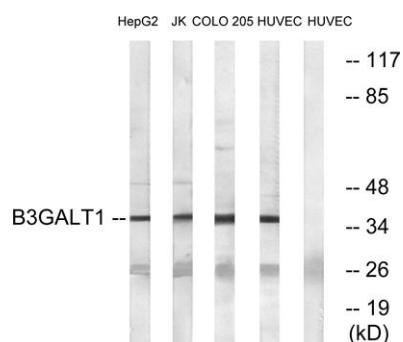
| | |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Concentration | 1 mg/ml |
| Observed band | 36kD |
| Human Gene ID | 8708 |
| Human Swiss-Prot Number | Q9Y5Z6 |
| Alternative Names | 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 |

Background

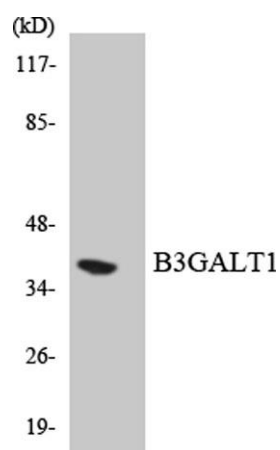
This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, 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 β -1,3-Gal-T1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



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.



Western blot analysis of the lysates from HUVEC cells using B3GALT1 antibody.