

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse                                                                                                                                                                                                                                                                 |
| <b>Specificity</b>        | Detects human and mouse $\beta$ -1,4-Glucuronyltransferase 1/B4GAT1 in Western blot. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) B4GalT1 and rhB3GNT 2 is observed.                                                                         |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human $\beta$ -1,4-Glucuronyltransferase 1/B4GAT1<br>Asp43-Cys415<br>Accession # O43505                                                                                                                             |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### BACKGROUND

B3GNT1 ( $\beta$ -1,3-N-acetylglucosaminyltransferase 1; also iGnT) is a 50 kD member of the  $\beta$ 3GnT family of enzymes. It is synthesized by sensory neurons, endothelial cells and skeletal muscle. In the trans-Golgi, it collaborates with B4GALT1 to generate a linear poly-N-acetylglucosamine sequence that can be incorporated into either N-linked or O-linked glycans. Human B3GNT1 is a 451 amino acid (aa) type II transmembrane protein. It contains an eight aa N-terminal cytoplasmic segment, an extended 28 aa transmembrane region (aa 9-36), and a 379 aa luminal domain (aa 37-415). Over aa 37-415, human B3GNT1 shares 97% aa identity with mouse B3GNT1.

#### PRODUCT SPECIFIC NOTICES

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