

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse β -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.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human β -1,4-Glucuronyltransferase 1/B4GAT1 Asp43-Cys415 Accession # O43505
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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 (β -1,3-N-acetylglucosaminyltransferase 1; also iGnT) is a 50 kD member of the β 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.

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