Human β-1,3-N-acetylglucosaminyl-transferase 1/B3GNT1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 724057

Catalog Number: MAB6664

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human β-1,3-N-acetylglucosaminyltransferase 1/B3GNT1 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) B3GNT2, rhB3GNT6, or rhB4GalT1 is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 724057
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human β-1,3-N-acetylglucosaminyltransferase 1/B3GNT1 Asp43-Cys415 Accession # O43505
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

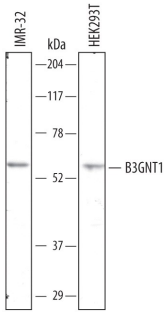
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA

Western Blot



Detection of Human β-1,3-N-acetylglucosaminyltransferase 1/B3GNT1 by Western Blot. Western blot shows lysates of IMR-32 human neuroblastoma cell line and HEK293T human embryonic kidney cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human β-1,3-N-acetylglucosaminyl-transferase 1/B3GNT1 Monoclonal Antibody (Catalog # MAB6664) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for β-1,3-N-acetylglucosaminyltransferase 1/B3GNT1 at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

B3GNT1 (β-1,3-N-acetylglucosaminyltransferase 1; also iGnT) is a 50 kD member of the b3GnT 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-acetyllactosamine 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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