

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human β -1,3-N-acetylglucosaminyltransferase 2/B3GNT2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human B4GALT1 is observed
Source	Monoclonal Mouse IgG _{2B} Clone # 485327
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human β -1,3-N-acetylglucosaminyltransferase 2/B3GNT2 Lys29-Cys397 Accession # Q9NY97
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

β 1,3-Linked GlcNAc residues are present in the backbone of various biologically important glycans which are involved in many essential biological functions such as keratan sulfate synthesis in corneal tissue (1). The addition of such residues are catalyzed by a family of β 1,3-N-acetylglucosaminyltransferases, that includes at least eight members (1-5). All of them are type II Golgi resident transmembrane proteins and have high homology to the β 1,3-galactosyltransferase family.

β 1,3-N-acetylglucosaminyltransferases 2 or β 3GNT2 prefers the substrate lacto-N-neotetraose and is involved in the biosynthesis of poly-N-acetyllactosamine chains (6).

PRODUCT SPECIFIC NOTICES

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