

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Glucosaminyl (N-acetyl) Transferase 1/GCNT1 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Glucosaminyl (N-acetyl) Transferase 1/GCNT1 Arg33-His428 Accession # NP_001481
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

Mucin-type O-glycans are initiated with an O-GalNAc attachment to a serine or threonine in a polypeptide. The O-GalNAc residues are subsequently extended by various glycosyltransferases resulting in different types of O-glycans. Most O-glycans contain the core 1 structure, Galβ1-3GalNAc. Glucosaminyl (N-acetyl) Transferase 1 (GCNT1) converts the core 1 O-glycan to core 2 O-glycan, Galβ1-3(GlcNAcβ1-6)GalNAc, via the addition of a GlcNAc residue (1, 2). Various ligand carbohydrates can be formed from core 2 branched oligosaccharides. For example, sialyl Le^x in mucin-type glycoproteins of blood cells can be formed from core 2 branched oligosaccharides (3, 4). The expression of GCNT1 was found to be associated with the progression of various types of cancer (5, 6, 7). The enzymatic activity of the recombinant GCNT1 is measured using a phosphatase-coupled method (8).

PRODUCT SPECIFIC NOTICES

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