Human Polypeptide GalNac Transferase 4/GALNT4 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG

Catalog Number: AF7528

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Polypeptide GalNac Transferase 4/GALNT4 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) GALNT1 and rhGALNT3 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Polypeptide GalNac Transferase 4/GALNT4 Ala36-Lys578 Accession # Q8N4A0
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.

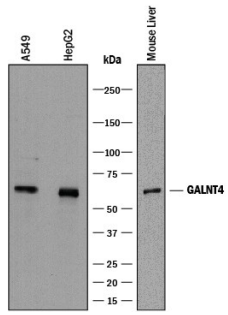
APPLICATIONS

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	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human and Mouse Polypeptide GalNac Transferase 4/GALNT4 by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line, HepG2 human hepatocellular carcinoma cell line, and mouse liver tissue. PVDF membrane was probed with 0.5 µg/mL of Sheep Anti-Human Polypeptide GalNac Transferase 4/GALNT4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7528) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Polypeptide GalNac Transferase 4/GALNT4 at approximately 66 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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

GALNT4 (Polypeptide N-acetylgalactosaminyltransferase 4; also Polypeptide GalNAc transferase 4 and UDP-GalNAc:polypeptide Nacetylgalactosaminyltransferase 4) is a 66 kDa member of the GalNAC transferase subfamily, glycosyltransferase 4 family of enzymes. It is widely expressed, highly expressed in mucous cells. GALNT4 is found in the Golgi apparatus, and catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Human GALNT4 is a 578 amino acid (aa) type II transmembrane protein. It contains a twelve aa N-terminal cytoplasmic region and a 543 aa extracellular lumenal domain (aa 36-578). There is a potential 45 kDa splice form variant. Over aa 36-578, human GALNT4 shares 92% aa sequence identity with mouse GALNT4.

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