

**ST6GALNAC1 polyclonal antibody**

Catalog: BS34603

Host: Rabbit

Reactivity: Human, Mouse

BackGround:

Alpha-N-acetylgalactosaminide α -2,6-sialyltransferase 1: Protein sialyltransferase specifically expressed in goblet cells that plays a key role in intestinal host-commensal homeostasis. Conjugates sialic acid with an α -2-6 linkage to N-acetylgalactosamine (GalNAc) glycan chains linked to serine or threonine in glycoproteins. Catalyzes the formation of the sialyl-Tn (S-Tn) antigen, an antigen found in intestinal goblet cells, as well as ulcerative colitis (UC) and various cancers. Protein sialylation in goblet cells is essential for mucus integrity and is required to protect the intestinal mucus against excessive bacterial proteolytic degradation.

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~68.6 kDa

Swiss-Prot:

Q9NSC7

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of ST6GALNAC1 protein

DATA:

Western blot analysis of Collagen 6 alpha expression in human brain (A) whole cell lysates.

Immunohistochemical analysis of Collagen 6 alpha staining in rat pancreas formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Immunofluorescent analysis of Collagen 6 alpha staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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