CD175s (HB-STn1): sc-58971

BACKGROUND
CD175s (also referred to as sialyl-Tn) is a Mucin-type carbohydrate that is normally present in goblet cells of small and large bowel. CD175s is produced in the initial steps of Mucin biosynthetic pathway, and it plays a key role in the glycosylation of proteins that affect cell-cell interaction, the interactions with the matrix and the functions of intracellular molecules. Specifically, CD175s transfers a sialic acid, N-acetylneuraminic acid (NeuAc), in an α-2,6 linkage onto O-linked GalNAc residues. CD175s is associated with hyperplasia in squamous epithelium and may be linked to tumor regression, thereby proving to be a useful tool in the prediction of carcinoma aggressiveness, particularly breast and ovarian cancers.

REFERENCES

SOURCE
CD175s (HB-STn1) is a mouse monoclonal antibody raised against sub-maxillary Mucin of sheep origin.

PRODUCT
Each vial contains 100 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS
CD175s (HB-STn1) is recommended for detection of CD175s of human and sheep origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2046. 2) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2050 or ABC: sc-2017 mouse IgG Staining Systems.

STORAGE
Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE
For research use only, not for use in diagnostic procedures.

PROTOCOLS
See our web site at www.scbt.com or our catalog for detailed protocols and support products.