

# CD175s (BRIC111): sc-58970

## 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  $\alpha$ -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

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## SOURCE

CD175s (BRIC111) is a mouse monoclonal antibody raised against CD175s red blood cells of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD175s (BRIC111) is available conjugated to agarose (sc-58970 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-58970 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-58970 PE), fluorescein (sc-58970 FITC), Alexa Fluor® 488 (sc-58970 AF488), Alexa Fluor® 546 (sc-58970 AF546), Alexa Fluor® 594 (sc-58970 AF594) or Alexa Fluor® 647 (sc-58970 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-58970 AF680) or Alexa Fluor® 790 (sc-58970 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

CD175s (BRIC111) is recommended for detection of CD175 on Glycophorin A and Glycophorin B in erythrocytes of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
1) Immunofluorescence: use m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.