SANTA CRUZ BIOTECHNOLOGY, INC.

Blood Group Lewis y (A70-C/C8): sc-59472

SANTA CRUZ BIOTECHNOLOGY
The Power to Question

BACKGROUND

Glycosyltransferases that mediate the regio- and stereoselective transfer of sugars, such as the fucosyltransferases, determine cell surface-carbohydrate profiles, which is an essential interface for biological recognition processes. Fucosyltransferases catalyze the covalent association of fucose to different positional linkages in sugar acceptor molecules. The carbohydrate moieties generated and covalently attached to cell surfaces are necessary to ensure a surface contour that satisfies physiological roles, which are reliant on adhesion molecules such as selectins. Hematopoietic lineages rely on fucosyltransferases to confer a surface carbohydrate phenotype, which mediates proper cell adhesion molecule recruitment and cell trafficking. Blood Group Lewis y is a carbohydrate determinant carried on both glycolipids and glycoproteins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FUT3 (human) mapping to 19p13.3.

SOURCE

Blood Group Lewis y (A70-C/C8) is a mouse monoclonal antibody raised against live LS174T colorectal carcinoma cells of human origin.

PRODUCT

Each vial contains 50 µg IgM in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Blood Group Lewis y (A70-C/C8) is recommended for detection of Blood Group Lewis y of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with the blood group H type 2 antigens or with Le^a, sialyl-Le^a, Le^x, sialyl-Le^x, Le^b or Le^c.

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 for detailed protocols and support products.