CDw75 (LN-1): sc-6263

**BACKGROUND**

Modification of cell surface glycoprotein and glycolipid oligosaccharides is thought to play a role in tumorigenesis and metastasis. Sialyltransferases catalyze the incorporation of sialic acid into the carbohydrate chains present on glycoproteins and function in intracellular terminal glycosylation pathways. The expression of one such sialyltransferase, CD75, (also known as ST6GAL1), leads to the appearance of the cell surface antigens CD76, HB6 and CDw75. Expressed in the Golgi apparatus and secreted into the extracellular fluid, CD75 is a type II membrane protein that is involved in generating sialylated antigens that function as cell-surface carbohydrate determinants. One such antigen, CDw75 (also known as CD75s or CD75-sialyated), is formed via the catalytic transfer of a sialic acid residue from CD75 to a cell surface galactose-containing carbohydrate acceptor. While CD75 functions in cells throughout the body, CDw75 is found primarily on B and T cells and may be upregulated in B-cell leukemias, suggesting a possible role for CDw75 in carcinogenesis.

**REFERENCES**


5. Munro, S., et al. 1992. The B lymphocyte surface antigen CD75 is not an α2,6-sialyltransferase but is a carbohydrate antigen, the production of which requires the enzyme. Cell 68: 1003.


**CHROMOSOMAL LOCATION**

Genetic locus: ST6GAL1 (human) mapping to 3q27.3; St6gal1 (mouse) mapping to 16 B1.

**SOURCE**

CDw75 (LN-1) is a mouse monoclonal antibody raised against pokeweed mitogen stimulated peripheral mononuclear cells.

**PRODUCT**

Each vial contains 200 µg IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CDw75 (LN-1) is available conjugated to either phycoerythrin (sc-6263 PE) or fluorescein (sc-6263 FITC), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM.

**APPLICATIONS**

CDw75 (LN-1) is recommended for detection of CDw75 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).

Molecular Weight of CDw75: 46 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

**DATA**

**SELECT PRODUCT CITATIONS**


**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.