
Mouse Anti-Human CD38-PE Cy5 conjugate

Catalog# **CD38PC-100** **Size** **100 tests**
Catalog# **CD38PC-25** **Size** **25 tests**

PRODUCT INFORMATION

CLONE: HIT2
ISOTYPE: Mouse IgG1, κ
WS.No.: III 155
Product Forms: Purified, FITC conjugation, PE conjugation, PE-Cy5 conjugation.

DESCRIPTION

CD38 McAb recognizes a 45 KD single chain type \square transmembrane glycoprotein expressed on thymocytes, activated T and B cells, hematopoietic progenitors and terminally differentiated B cells—plasma cells (at high levels). CD38 antigen is also present on monocytes, dendritic cells, NK cells and some epithelial cells. CD38 is a NAD glycohydrolase and is a regulator of cell activation and proliferation, and also involved in adhesion between human lymphocytes and endothelial cells.

PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with FITC, R-PE, PE-Cy5 under optimum conditions.

USAGE

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis and is tested for immunohistochemical staining of acetone-fixed frozen sections.

The conjugated reagent (FITC, R-PE) is tested for flow cytometric analysis using 20 μ l/10⁶ cells or 100 μ l peripheral blood cells.

The conjugated reagent (PE-Cy5) is tested for flow cytometric analysis using 10 μ l/10⁶ cells or 100 μ l peripheral blood cells.

STORAGE

For purified forms, long term storage at -20oC.

For conjugated forms, storage at 4oC, should not be frozen and avoid prolonged exposure to light.

REFERENCES

1. Shen DC., Chen Z., Yu AX., et al., 1986. A group of monoclonal antibodies reacted with human thymocyte differentiation antigens: production and specificity analysis. Chinese J. of Immunology. 2(6):331
 2. Chen Z., Shen DC., Yu AX., et al., 1987. A group of monoclonal antibodies reacted with human thymocyte differentiation antigens II. Biological properties. Shanghai J. of Immunol. 7(1):1
 3. Yang CY., Shen DC., She M., et al., 1993. The study of a CD38 monoclonal antibody. J. Monoclonal Antibody. 9(4):56
 4. McMichael AJ., P.C.L. Beverly, W.Gilks, et al., eds. 1987. Leucocyte Typing \square : White Cell Differentiation Antigens. P: 41, 57, 66 Oxford University Press, New York.
- Schlossman S., L.Bloumsell, W.Gilks, et al., eds. 1995. Leucocyte Typing \square : White Cell Differentiation Antigens. P: 249, 269 Oxford University Press, New York.