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**Mouse Anti-Human CD38-FITC conjugate**

**Catalog#**      **CD38F-100**      **Size**      **100 tests**  
**Catalog#**      **CD38F-25**      **Size**      **25 tests**

**PRODUCT INFORMATION**

**CLONE:**                      HIT2  
**ISOTYPE:**                  Mouse IgG1,  $\kappa$   
**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 $\mu$ l/10<sup>6</sup> cells or 100 $\mu$ l peripheral blood cells.

The conjugated reagent (PE-Cy5) is tested for flow cytometric analysis using 10 $\mu$ l/10<sup>6</sup> cells or 100 $\mu$ 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.
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