

Anti-Human CD33 FITC

Catalog Number :05411-50

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: WM53

Format/Conjugate: FITC

Concentration: 5 uL (0.5 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

Brightness (1=dim,5=brightest): 3

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The WM53 monoclonal antibody specifically reacts with human CD33, a 67 kDA transmembrane glycoprotein also known as GP67 and P67. CD33 is expressed on monocytes, granulocytes, dendritic cells, mast cells, and myeloid progenitors to the exclusion of hematopoietic stem cells, lymphocytes, and platelets. It functions to assist sialic acid-dependent cell adhesion.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1. Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
2. Favaloro, E. J., Bradstock, K. F., Kabral, A., Grimsley, P., Zowtyj, H., Zola, H. (1988). Further characterization of human myeloid antigens (gp160, 95; gp150; gp67): investigation of epitopic heterogeneity and non-haemopoietic distribution using panels of monoclonal antibodies belonging to CD-11b, CD-13 and CD-33.; British journal of haematology.; 69(2), 163-171.
3. Freeman, S. D., Kelm, S., Barber, E. K., Crocker, P. R. (1995). Characterization of CD33 as a new member of the sialoadhesin family of cellular interaction molecules.; Blood.; 85(8), 2005-2012.