

Anti-Human CD21 PE

Catalogue Number : 03311-60

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

Product Information

Clone: HB5

Format/Conjugate: PE

Concentration: 5 uL (0.125 ug)/test

Reactivity: Human

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: mouse IgG2a, 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 HB5 monoclonal antibody specifically reacts with human CD21, a 145 kDA glycosylated type I integral membrane protein. CD21 is reported to be involved in B cell activation and proliferation. It is expressed on follicular dendritic cells, mature B cells, a subset of T cells, and a subset of epithelial cells. It is the receptor utilized by the Epstein-Barr virus to infect B cells.

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. Tedder, T. F., Clement, L. T., ; Cooper, M. D. (1984). Expression of C3d receptors during human B cell differentiation: immunofluorescence analysis with the HB-5 monoclonal antibody.; *The Journal of Immunology*;;133(2), 678-683.
2. Fingeroth, J. D., Weis, J. J., Tedder, T. F., Strominger, J. L., Biro, P. A., ; Fearon, D. T. (1984). Epstein-Barr virus receptor of human B lymphocytes is the C3d receptor CR2.; *Proceedings of the National Academy of Sciences*,81(14), 4510-4514.
3. Nemerow, G. R., Wolfert, R. O. B. E. R. T., McNaughton, M. E., ; Cooper, N. R. (1985). Identification and characterization of the Epstein-Barr virus receptor on human B lymphocytes and its relationship to the C3d complement receptor (CR2).; *Journal of virology*;;55(2), 347-351.