

Anti-Human CD23 APC

Catalog Number :05311-80

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

Product Information

Clone: EBVCS-5

Format/Conjugate: APC

Concentration: 5uL (0.125ug)/test

Reactivity: Human

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

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

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 EBVCS-5 monoclonal antibody specifically binds to human CD23, a type II membrane glycoprotein that is also called FC epsilon RII or the low-affinity IgE receptor. It belongs to the C-type lectin structural family and plays a role in the regulation of IgE synthesis and IgE mediated activities. In addition to binding IgE, also exerts a number of IgE independent activities, such as promoting the activation and differentiation of B-cells and stimulating the release of pro-inflammatory cytokines from monocytes. CD23 is expressed on mature B cells, follicular mantle B cells, and a subset of T 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. Gordon, J., Webb, A. J., Guy, G. R., Walker, L. (1987). Triggering of B lymphocytes through CD23: epitope mapping and studies using antibody derivatives indicate an allosteric mechanism of signalling.; Immunology.; 60(4), 517.
2. Gordon, J., Rowe, M., Walker, L., Guy, G. (1986). Ligation of the CD23, p45 (BLAST-2, EBVCS) antigen triggers the cell-cycle progression of activated B lymphocytes.; European journal of immunology.; 16(9), 1075-1080.
3. Kikutani, H. I. T. O. S. H. I., Suemura, M. A. S. A. K. I., Owaki, H., Nakamura, H., Sato, R. Y. O. I. C. H. I., Yamasaki, K., ... Kishimoto, T. A. D. A. M. I. T. S. U. (1986). Fc epsilon receptor, a specific differentiation marker transiently expressed on mature B cells before isotype switching.; Journal of Experimental Medicine.; 164(5), 1455-1469.