

Anti-Human IL-4 PE

Catalog Number :81111-60

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

Product Information

Clone: 8D4-8

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 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 8D4-8 monoclonal antibody specifically reacts with human IL-4, expressed by the activated T cells and mast cells. IL-4 is species-specific and stimulates the proliferation and differentiation of B lymphocytes. It upregulates the expression of IgE receptors and class II MHC antigen. The 8D4-8 antibody neutralizes the IL-4 cytokine.

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. Bird, C., Wadhwa, M., Thorpe, R. (1991). Development of immunoassays for human interleukin 3 and interleukin 4, some of which discriminate between different recombinant DNA-derived molecules.;Cytokine.;3(6), 562-567.
2. Prussin, C., Metcalfe, D. D. (1995). Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies.;Journal of immunological methods.;188(1), 117-128.
3. Kon, O. M., Sihra, B. S., Till, S. J., Corrigan, C. J., Kay, A. B., Grant, J. A. (1998). Unstimulated basophils in atopic and nonatopic subjects express intracellular interleukin-4: detection by flow cytometry.;Allergy.;53(9), 891-896.