

Anti-Human IL-4 PE

Catalog Number :81121-60

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

Product Information

Clone: MP4-25D2

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: Rat 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 MP4-25D2 monoclonal antibody specifically reacts with human Interleukin-4 (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 MP4-25D2 is a neutralizing antibody and is reported to be cross-reactive with rhesus monkeys.

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. Abrams, J. S., Roncarolo, M. G., Yssel, H., Andersson, U., Gleich, G. J., Silver, J. E. (1992). Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. *Immunological reviews*,;127(1), 5-24.
2. Chrétien, I., Van Kimmenade, A., Pearce, M. K., Banchereau, J., Abrams, J. S. (1989). Development of polyclonal and monoclonal antibodies for immunoassay and neutralization of human interleukin-4. *Journal of immunological methods*,;117(1), 67-81.
3. Jung, T., Schauer, U., Rieger, C., Wagner, K., Einsle, K., Neumann, C., Heusser, C. (1995). Interleukin-4 and interleukin-5 are rarely co-expressed by human T cells. *European journal of immunology*,;25(8), 2413-2416.