Technical Data Sheet

# Anti-Human IL-4 APC

Catalog Number :81121-80

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

## Product Information

**Clone:** MP4-25D2

**Format/Conjugate:** APC

**Concentration:** 5 uL (0.0375ug)/test

**Reactivity:** Human

**Laser:** Red (635 -655nm)

**Peak Emission:** 660nm

**Peak Excitation:** 650nm

**Filter:** 660/20

**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.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316