

Anti-Mouse IL-4 PE

Catalogue Number : 81112-60

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

Product Information

Clone: 11B11

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

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 11B11 monoclonal antibody specifically reacts with mouse 14 kDa cytokine IL-4, expressed by the activated NKT 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 11B11 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. For flow cytometric staining, the suggested use of this reagent is ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Abrams, John S. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. John Wiley ; Sons, Inc., 1995.
2. Ohara, J., and W. E. Paul. "Production of a monoclonal antibody to and molecular characterization of B-cell stimulatory factor-1."; Nature, 315:6017 (1985): 333.
3. Haak-Frendscho, M., Brown, J. F., Iizawa, Y. U. J. I., Wagner, R. D., ; Czuprynski, C. J. (1992). Administration of anti-IL-4 monoclonal antibody 11B11 increases the resistance of mice to Listeria monocytogenes infection.; The Journal of Immunology, 148(12), 3978-3985.