

Anti-Mouse IL-4 SAFIRE Purified

Catalog Number :81112-25

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

Product Information

Clone: 11B11

Format/Conjugate: SAFIRE Purified

Concentration: 2 mg/mL

Reactivity: Mouse

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Rat IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC, FA, IHC, IF, ELISA

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. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. 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., Czubrynski, 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.