

Anti-Mouse CD4 FITC

Catalogue Number : 06122-50

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

Product Information

Clone: RM4-5

Format/Conjugate: FITC

Concentration: 0.5 mg/mL

Reactivity: Mouse

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

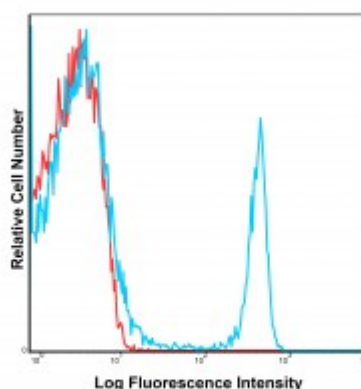
Brightness (1=dim,5=brightest): 3

Isotype: Rat IgG2a, kappa

Formulation: Phosphate-buffered aqueous solution, $\leq 0.09\%$ 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



C57Bl/6 splenocytes were stained with FITC RM4-5 with relevant isotype control in Red.

Description

The RM4-5 monoclonal antibody specifically reacts with mouse CD4, also known as L3T4, a 55 kDa differentiation antigen expressed by the majority of thymocytes, subpopulations of mature T cells (like major histocompatibility complex class II-restricted T lymphocytes), a subset of natural killer T cells, and on pluripotent hematopoietic stem cells. CD4 binds to the major histocompatibility complex class II (MHC class II) and enhances T lymphocyte development and mature T cells functions. In T lymphocytes, CD4 binds to the cytoplasmic tail of enzyme tyrosine kinase (p56lck).

Binding of RM4-5 is blocked by the anti-mouse CD4 clone GK1.5.

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 ≤ 0.25 ug per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Shevach, E. M. (2000). Regulatory T cells in autoimmunity*. *Annual review of immunology*, 18(1), 423-449.
2. Wu, L., Scollay, R., Egerton, M., Pearse, M., Spangrude, G. J., ; Shortman, K. (1991). CD4 expressed on earliest T-lineage precursor cells in the adult murine thymus.
3. Bliss, S. K., Bliss, S. P., Beiting, D. P., Alcaraz, A., ; Appleton, J. A. (2007). IL-10 regulates movement of intestinally derived CD4+ T cells to the liver. *The Journal of Immunology*, 178(12), 7974-7983.