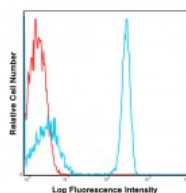




CD4 Antibody [RM4-5] (FITC)

CATALOG NUMBER: 76-372



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

Specifications

SPECIES REACTIVITY:	Mouse
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	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.
HOST SPECIES:	Rat

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
CONCENTRATION:	0.5 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Rat IgG2a, kappa
CONJUGATE:	FITC

Additional Info

ALTERNATE NAMES:	L3T4, Ly-4, Cd4
OFFICIAL SYMBOL:	Cd4
GENE ID:	12504

Background

BACKGROUND:

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.

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., Pearce, 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.

FOR RESEARCH USE ONLY

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