



## CD4 Antibody [RM4-5] (APC-Cy7)

CATALOG NUMBER: 76-384

### Specifications

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

### Properties

<b>PURIFICATION:</b>	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
<b>PHYSICAL STATE:</b>	liquid
<b>BUFFER:</b>	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
<b>CONCENTRATION:</b>	0.2 mg/mL
<b>STORAGE CONDITIONS:</b>	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	Rat IgG2a, kappa
<b>CONJUGATE:</b>	APC-Cy7

### Additional Info

<b>ALTERNATE NAMES:</b>	L3T4, Ly-4, Cd4
<b>OFFICIAL SYMBOL:</b>	Cd4
<b>GENE ID:</b>	12504

### Background

<b>BACKGROUND:</b>	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.
<b>REFERENCES:</b>	<p>1) Shevach, E. M. (2000). Regulatory T cells in autoimmunity*. Annual review of immunology, 18(1), 423-449.</p> <p>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.</p> <p>3) Bliss, S. K., Bliss, S. P., Beiting, D. P., Alcaraz, A., Appleton, J. A. (2007). IL-10 regulates movement of</p>

**FOR RESEARCH USE ONLY**

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