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## HIGH PERFORMANCE ANTIBODIES ... AND MORE

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## CD4 Antibody [RM4-5] (Violet-450)

CATALOG NUMBER: 76-371

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:	0.2 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:	Violet-450
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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.BG Violet 450 conjugate is an alternative to the Pacific Blue, eFluor 450, or BD Horizon V450 dyes. It is excited by the violet (405 nm) laser, with a peak emission of 450nm.
REFERENCES:	1) Shevach, E. M. (2000). Regulatory T cells in autoimmmunity*. 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.

## FOR RESEARCH USE ONLY

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