

**PE/Cy7 anti-mouse CD4**

**Catalog # / Size:** 1180080 / 100 µg  
1180075 / 25 µg

**Clone:** RM4-4

**Isotype:** Rat IgG2b, κ

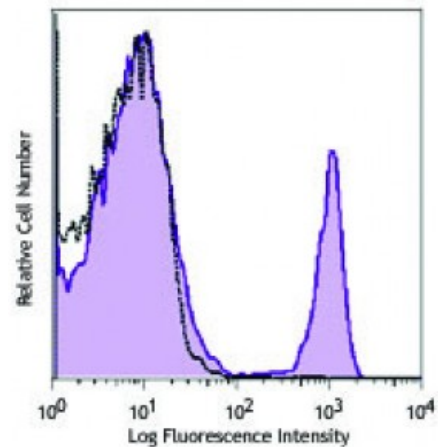
**Immunogen:** BALB/c mouse thymocytes

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2



C57BL/6 mouse splenocytes were stained with CD4 (clone RM4-4) PE/Cy7 (filled histogram) or rat IgG2b, κ PE/Cy7 isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** RM4-4 antibody does not block the binding of GK1.5 and RM4-5 antibodies to CD4 T cells. For immunohistochemistry applications, the RM4-5 (Cat. No. 100506) and GK1.5 (Cat. No. 100402) antibodies are recommended.

**Application References:** 1. Bendelac A. 1995. *Curr. Opin. Immunol.* 7:367.  
2. Norian LA and Allen PM. 2004. *J. Immunol.* 173:835.

**Description:** CD4 is a 55 kD protein, also known as L3T4 or T4. It is a member of the Ig superfamily, primarily expressed on most thymocytes and a subset of T cells, and weakly on macrophages and dendritic cells. It acts as a coreceptor with the TCR during T cell activation and thymic differentiation by binding MHC class II and associating with the protein tyrosin kinase, lck.

**Antigen References:** 1. Barclay A, *et al.* 1997. *The Leukocyte Antigen FactsBook* Academic Press.  
2. Bierer BE, *et al.* 1989. *Annu. Rev. Immunol.* 7:579.  
3. Janeway CA. 1992. *Annu. Rev. Immunol.* 10:645.