

**PerCP/Cyanine5.5 anti-mouse CD4**

**Catalog # / Size:** 1102165 / 25 µg  
1102170 / 100 µg

**Clone:** GK1.5

**Isotype:** Rat IgG2b, κ

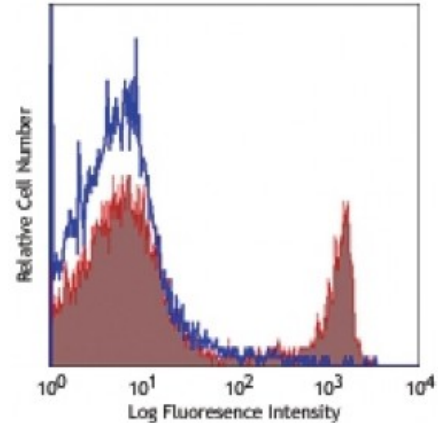
**Immunogen:** Mouse CTL clone V4

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PerCP/Cyanine5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cyanine5.5 and unconjugated antibody.

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

**Concentration:** 0.2mg/ml



C57BL/6 mouse splenocytes were stained with CD4 (clone GK1.5) PerCP/Cy5.5 (filled histogram) or rat IgG2b, κ PerCP/Cy5.5 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  $\leq 0.25$  microg per  $10^6$  cells in 100 microL. It is recommended that the reagent be titrated for optimal performance for each application.

\* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: blocking of CD4<sup>+</sup> T cell activation<sup>1,4,11</sup>, thymocyte costimulation<sup>3</sup>, *in vitro* and *in vivo* depletion<sup>2,5-8</sup>, blocking of egg-

**Application 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.

**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, 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, Ick.

**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.