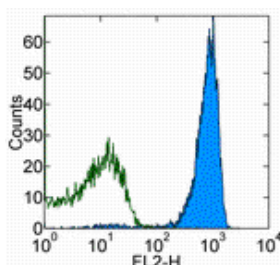


Anti-Mouse CD4 Purified

Catalog Number: 14-0043

Also Known As: L3T4, Ly-4

RUO: For Research Use Only



Staining of C57Bl/6 thymocytes with 0.25 μ g of Rat IgG2b Isotype Control Purified (cat. 14-4031) (open histogram) or 0.25 μ g of Anti-Mouse CD4 Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4317). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD4 Purified

REF **Catalog Number:** 14-0043

Clone: RM4-4

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The RM4-4 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor expressed by the majority of thymocytes, a subpopulation of mature T cells and dendritic cells. CD4 binds to MHC class II on the surface of antigen presenting cells and plays an important role both in T cell development and in optimal functioning of mature T cells. In T cells, CD4 associates with the protein tyrosine kinase lck through its cytoplasmic tail. Binding of RM4-4 does not block binding of the CD4 monoclonal antibodies RM4-5 or GK1.5.

Applications Reported

This RM4-4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This RM4-4 antibody has been tested by flow cytometric analysis of mouse splenocytes and thymocytes. This can be used at less than or equal to 0.125 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Godfrey, D.I., J. Kennedy, P. Mombaerts, S. Tonegawa, and A. Zlotnik. Onset of TCR-gene rearrangement and role of TCR-expression during CD3-CD4-CD8- thymocyte differentiation. *J. Immunol* 1994. 152: 4783 - 4792.

Wu, L., R. Scollay, M. Egerton, M. Pearse, G.J. Spangrude, and K. Shortman. CD4 expressed on earliest T-lineage precursor cells in the adult murine thymus. *Nature* 1991. 349: 71 - 74.

Wu, L., M. Antica, G.R. Johnson, R. Scollay, and K. Shortman. Developmental potential of the earliest precursor cells from the adult mouse thymus. *J. Exp. Med.* 1991. 174: 1617 - 1627.

Fredrickson, G.G., and R.S. Basch. L3T4 antigen expression by hemopoietic precursor cells. *J. Exp. Med.* 1989. 169: 1473 - 1478.

Related Products

14-4031 Rat IgG2b K Isotype Control Purified

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