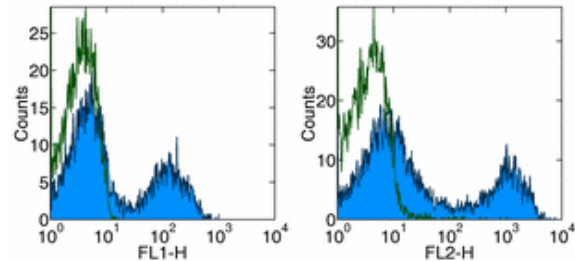


Product Information

Contents: Affinity Purified anti-mouse CD5 (Ly-1)
Catalog Number: 14-0051
Sizes: 50 ug, 100 ug, 500 ug
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
Clone: 53-7.3
Isotype: Rat IgG2a, κ



Surface staining of mouse splenocytes with anti-mouse CD5 (53-7.3) FITC (left), and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0051	FITC anti-mouse CD5 (Ly-1)	488	518	FC
12-0051	PE anti-mouse CD5 (Ly-1)	488	575	FC
13-0051	Biotin anti-mouse CD5 (Ly-1)	N/A	N/A	FC
14-0051	Affinity Purified anti-mouse CD5 (Ly-1)	N/A	N/A	FC IHC IP
17-0051	Allophycocyanin (APC) anti-mouse CD5 (Ly-1)	633	660	FC

Description

The 53-7.3 monoclonal antibody reacts with mouse CD5, a 67 kDa protein expressed by a majority of thymocytes, mature T cells and a subset of B cells. The expression of CD5 by a small subset of B cells characterizes a developmentally and functionally distinct lineage of B cells called B-1 cells. CD5 is a counter-receptor for CD72 and plays a role in the T-B cell interaction.

Usage

For research use only, not for diagnostic or therapeutic use. The 53-7.3 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining.

Applications Tested

The 53-7.3 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.25 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 11-0051 FITC anti-mouse CD5 (Ly-1) (clone 53-7.3)
Cat. 12-0051 PE anti-mouse CD5 (Ly-1) (clone 53-7.3)
Cat. 13-0051 Biotin anti-mouse CD5 (Ly-1) (clone 53-7.3)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 14-4321 Affinity Purified Rat IgG2a Isotype Control
Cat. 11-4811 FITC Anti-Rat IgG
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

References

Ledbetter, J. A. and L. A. Herzenberg. 1979. Xenogeneic monoclonal antibodies to mouse lymphoid differentiation antigens. *Immunol Rev* 47: 63-90.

Ledbetter, J. A., R. V. Rouse, et al. 1980. T cell subsets defined by expression of Lyt-1,2,3 and Thy-1 antigens. Two-parameter immunofluorescence and cytotoxicity analysis with monoclonal antibodies modifies current views. *J Exp Med* 152(2): 280-95.

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