

Product Information

Contents: Phycoerythrin (PE) anti-mouse CD5 (Ly-1)

Catalog Number: 12-0051

Sizes: 50 µg, 100 µg, 200 µg

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃

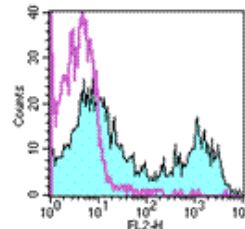
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: 53-7.3

Isotype: Rat IgG2a, κ



Staining of BALB/c splenocytes with 0.06 µg of PE rat IgG2a isotype control (cat. 12-4321) (open histogram) or 0.06 µg of PE anti-mouse CD5 (53-7.3) (colored 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.

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 0.125 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. 13-0051	Biotin anti-mouse CD5 (Ly-1) (clone 53-7.3)
Cat. 14-0051	Affinity Purified anti-mouse CD5 (Ly-1) (clone 53-7.3)
Cat. 12-4321	PE Rat IgG2a Isotype Control

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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