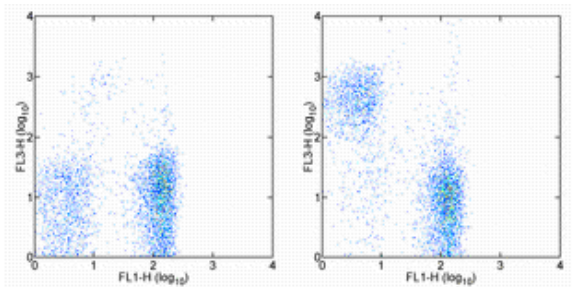


## Anti-Mouse CD5 PE-Cyanine7

**Catalog Number:** 25-0051

**Also Known As:** Ly-1, Ly-12, Ly-A, Lyt-1

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.125 ug of Rat IgG2a K Isotype Control PE-Cyanine7 (cat. 25-4321) (left) or 0.125 ug of Anti-Mouse CD5 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD5 PE-Cyanine7

**REF** **Catalog Number:** 25-0051

**Clone:** 53-7.3

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, kappa

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

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



**LOT** **Batch Code:** Refer to Vial

**Use By:** Refer to Vial

**Caution, contains Azide**

### 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.

### Applications Reported

This 53-7.3 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This 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 test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.**

**Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.**

### References

Ledbetter JA, Rouse RV, Micklem HS, Herzenberg LA. 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.* 1980 Aug 1;152(2):280-95.

Ledbetter JA, Herzenberg LA. Xenogeneic monoclonal antibodies to mouse lymphoid differentiation antigens. *Immunol Rev.* 1979;47:63-90.

### Related Products

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)

25-4321 Rat IgG2a K Isotype Control PE-Cyanine7 (eBR2a)

### Legal

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