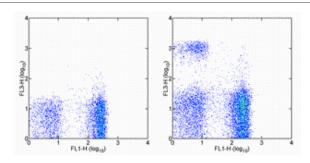


# Anti-Mouse CD8a PE-Cyanine7

Catalog Number: 25-0081

Also Known As:CD8 alpha, Ly-2, Ly-35, Ly-B, Lyt-2

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



Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.25 ug of Rat IgG2a K Isotype Control PE-Cyanine7 (cat. 25-4321) (left) or 0.25 ug of Anti-Mouse CD8a PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

### **Product Information**

Contents: Anti-Mouse CD8a PE-Cyanine7

REF Catalog Number: 25-0081

Clone: 53-6.7

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. **Batch Code:** Refer to Vial

Use By: Refer to Vial

Caution, contains Azide



The 53-6.7 monoclonal antibody reacts with the mouse CD8a molecule. CD8a is an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha beta) or as a homodimer (CD8 alpha alpha). A majority of thymocytes and a subpopulation of mature alpha beta TCR T cells express CD8 alpha beta while gamma delta TCR T cells, a subpopulation of intestinal intraepithelial lymphocytes (IELs) and dendritic cells express CD8 alpha alpha. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T cell development and activation of mature T cells.

### **Applications Reported**

The 53-6.7 antibody has been reported for use in flow cytometric analysis.

## **Applications Tested**

This 53-6.7 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions. This can be used at less than or equal to 0.5  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. 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

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Yang Z, Day YJ, Toufektsian MC, Xu Y, Ramos SI, Marshall MA, French BA, Linden J. Myocardial infarct-sparing effect of adenosine A2A receptor activation is due to its action on CD4+ T lymphocytes. Circulation. 2006 Nov 7;114(19):2056-64. (53-6.7, in vivo depletion, PubMed)

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frozen)

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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, J. A. and L. A. Herzenberg. 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)

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