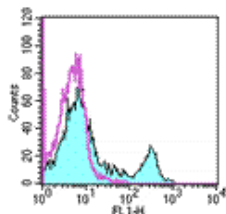


## Anti-Mouse CD8a Purified

**Catalog Number:** 14-0081

**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 C57Bl/6 splenocytes with 0.125 ug of Rat IgG2a Isotype Control Purified (cat. 14-4321) (open histogram) or 0.125 ug of Anti-Mouse CD8a Purified (filled histogram) followed by Anti-Rat IgG FITC (cat. 11-4811). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD8a Purified

 **Catalog Number:** 14-0081

**Clone:** 53-6.7

**Concentration:** 0.5 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.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Caution, contains Azide**

### Description

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

This 53-6.7 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of frozen tissue sections. It has also been reported in T cell activation, isolation and depletion of CD8<sup>+</sup> cells, and blocking of ligand binding. (Please use Functional Grade purified 53-6.7, cat. 16-0081, in functional assays.)

### Applications Tested

The 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 0.25 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.

### References

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Grabbe S, Varga G, Beissert S, Steinert M, Pendl G, Seeliger S, Bloch W, Peters T, Schwarz T, Sunderkötter C, Scharffetter-Kochanek K. Beta2 integrins are required for skin homing of primed T cells but not for priming naïve T cells. *J Clin Invest.* 2002 Jan;109(2):183-92. (**53-6.7**, IHC frozen)

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

**Related Products**

11-4811 Anti-Rat IgG FITC

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

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