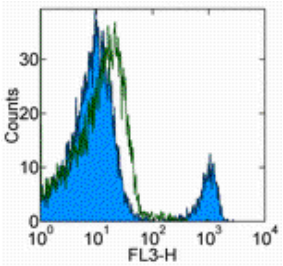
Anti-Mouse CD8a PerCP-Cy5.5

Catalog Number: 45-0081
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 K Isotype Control PerCP-Cyanine5.5 (cat. 45-4321) (open histogram) or 0.125 ug of Anti-Mouse CD8a PerCP-Cyanine5.5 (filled histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD8a PerCP-Cy5.5
REF **Catalog Number:** 45-0081
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.
LOT **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.

Applications Tested

This 53-6.7 antibody has been tested by flow cytometric analysis of mouse splenocytes. 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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)

Taylor JL, Ordway DJ, Troudt J, Gonzalez-Juarrero M, Basaraba RJ, Orme IM. Factors associated with severe granulomatous pneumonia in Mycobacterium tuberculosis-infected mice vaccinated therapeutically with hsp65 DNA. Infect Immun. 2005 Aug;73(8):5189-93. (**53-6.7**, IHC frozen)

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-

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Related Products

45-0088 Anti-Human CD8a PerCP-Cyanine5.5 (RPA-T8)
45-4321 Rat IgG2a K Isotype Control PerCP-Cyanine5.5 (eBR2a)

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