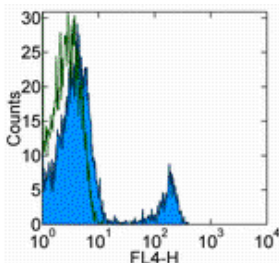


Anti-Mouse CD8a Alexa Fluor® 700

Catalog Number: 56-0081

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 staining buffer (autofluorescence) (open histogram) or 0.06 µg of Anti-Mouse CD8a Alexa Fluor® 700 (filled histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD8a Alexa Fluor® 700

REF **Catalog Number:** 56-0081

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.

The Alexa Fluor® 700 emits at 723 nm and can be excited with the He-Ne 633 laser. Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

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 0.125 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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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

56-4321 Rat IgG2a K Isotype Control Alexa Fluor® 700 (eBR2a)

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