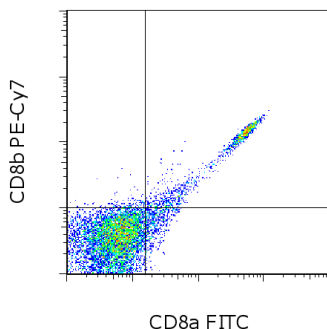


Anti-Mouse CD8b PE-Cyanine7

Catalog Number: 25-0083

Also known as: CD8 beta, Ly-3, Ly-C, Lyt-3

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



Staining of C57Bl/6 splenocytes with Anti-Mouse CD8a FITC (cat. 11-0081) and 0.06 ug of Anti-Mouse CD8b PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD8b PE-Cyanine7

Catalog Number: 25-0083

Clone: eBioH35-17.2 (H35-17.2)

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, 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

Contains sodium azide

Description

The eBioH35-17.2 monoclonal antibody reacts with the mouse CD8 beta molecule. The CD8 beta chain associates with the CD8 alpha chain to form the CD8 alpha/beta heterodimer expressed on the surface of a majority of thymocytes, and on peripheral cytotoxic alpha beta TCR T cells. CD8 binds to MHC class I and plays a role in T cell development and activation of mature T cells.

Applications Reported

This H35-17.2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioH35-17.2 (H35-17.2) antibody has been tested by flow cytometric analysis of mouse splenocytes. 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.

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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15;147(6):1746-51. (H35-17.2, FC, PubMed)

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Golstein P, Goridis C, Schmitt-Verhulst AM, Hayot B, Pierres A, van Agthoven A, Kaufmann Y, Eshhar Z, Pierres M. Lymphoid cell surface interaction structures detected using cytolysis-inhibiting monoclonal antibodies. *Immunol Rev.* 1982;68:5-42. Review.

Tarleton RL, Sun J, et al. 1994. Depletion of T-cell subpopulations results in exacerbation of myocarditis and parasitism in experimental Chagas' disease. *Infect Immun.* 62(5):1820-9. (H35-17.2, IHC frozen, PubMed)

Thoma-Uszynski S, Emoto M, and Kaufmann SH. 1997. CD8alphaalpha T cells in lesions of *Listeria monocytogenes*-infected beta2m-deficient mice. *Microb Pathog.* 23(2):101-6. (H35-17.2, IHC frozen, PubMed)

Related Products

00-4300 10X RBC Lysis Buffer (Multi-species)

11-0081 Anti-Mouse CD8a FITC (53-6.7)

25-4031 Rat IgG2b K Isotype Control PE-Cyanine7

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