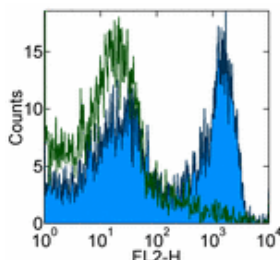


Anti-Rat CD8b Purified

Catalog Number: 14-0080

Also Known As: CD8 beta, Ly-3

RUO: For Research Use Only



Staining of Lou rat splenocytes with 0.25 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 µg of AntiRat CD8b Purified (filled histogram) followed by Anti-Mouse IgG Biotin (cat. 13-4013) and Streptavidin PE (cat. 12-4317). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Rat CD8b Purified

REF Catalog Number: 14-0080

Clone: eBio341 (341)

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG1, κ

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 eBio341 monoclonal antibody reacts with rat CD8β. CD8β is a member of the immunoglobulin superfamily which heterodimerizes with CD8α to form the CD8 antigen expressed on CD4+CD8+, double-positive thymocytes, the majority of MHC class I-restricted peripheral T cells, and on some macrophages. CD8β expression is absent in athymic mice, which are populated by T-cells expressing CD8α homodimers. This has led to the idea that CD8β expression is dependent on the development of T cells in the thymus. CD8 binds to MHC class I expressed on the surface of antigen-presenting cells during antigen presentation, and participates in T-cell receptor signal transduction through association with the kinase Lck.

Applications Reported

This eBio341 (341) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunoblotting (WB), and immunohistochemical staining. (Please use Functional Grade purified eBio341 (341), cat. 16-0080, in functional assays.)

Applications Tested

This eBio341 (341) antibody has been tested by flow cytometric analysis of rat splenocytes and thymocytes. This can be used at less than or equal to 0.5 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

Torres-Nagel N, Kraus E, Brown MH, Tiefenthaler G, Mitnacht R, Williams AF, Hunig T. Differential thymus dependence of rat CD8 isoform expression. *Eur J Immunol.* 1992 Nov;22(11):2841-8. (341, FC, FA, PubMed)

Kuhnlein P, Park JH, Herrmann T, Elbe A, Hunig T. Identification and characterization of rat gamma/delta T lymphocytes in peripheral lymphoid organs, small intestine, and skin with a monoclonal antibody to a constant determinant of the gamma/delta T cell receptor. *J Immunol.* 1994 Aug 1;153(3):979-86. (341, FC, PubMed)

Hirji N, Lin TJ, Bissonnette E, Belosevic M, Befus AD. Mechanisms of macrophage stimulation through CD8: macrophage CD8α and CD8β induce nitric oxide production and associated killing of the parasite *Leishmania major*. *J Immunol.* 1998 Jun 15;160(12):6004-11. (341, FA, PubMed)

Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-0083 Anti-Mouse CD8b Purified (eBioH35-17.2 (H35-17.2))
14-4714 Mouse IgG1 K Isotype Control Purified
17-4317 Streptavidin APC

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