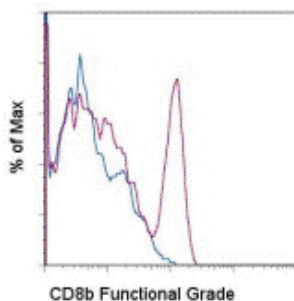


Anti-Rat CD8b Functional Grade Purified

Catalog Number: 16-0080

Also Known As: CD8 beta, Ly-3

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



Staining of Lou rat splenocytes with 0.25 ug of Mouse IgG1 kappa Isotype Control Purified (cat. 14-4714) (blue histogram) or 0.25 ug of Anti-Rat CD8b Functional Grade Purified (purple histogram) followed by F(ab')₂ Anti-Mouse IgG PE (cat. 12-4012). Total viable cells were used for analysis.

Product Information

Contents: Anti-Rat CD8b Functional Grade Purified

REF **Catalog Number:** 16-0080

Clone: eBio341 (341)

Concentration: 1 mg/ml

Host/Isotype: Mouse IgG1, kappa


Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The eBio341 monoclonal antibody reacts with rat CD8 β . CD8 β is a member of the immunoglobulin superfamily which heterodimerizes with CD8 α 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. CD8 β expression is absent in athymic mice, which are populated by T-cells expressing CD8 α homodimers. This has led to the idea that CD8 β 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 and 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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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 CD8alpha and CD8beta 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

12-4012 F(ab')₂ Anti-Mouse IgG PE (polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.1)
16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.1)

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