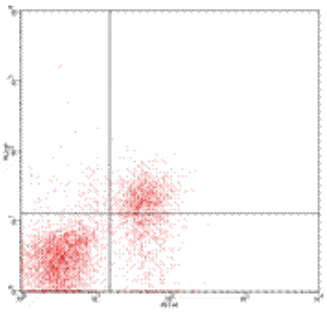
Anti-Mouse CD127 PE

Catalog Number: 12-1271
Also Known As: Interleukin-7 Receptor alpha, IL-7Ra
For Research Use Only. Not for use in diagnostic procedures.



Staining of mouse C57BL/6 splenocytes with Anti-Mouse CD3e FITC (cat.no. 11-0031) and 0.125 ug of Anti-Mouse CD127 PE.

Product Information

Contents: Anti-Mouse CD127 PE
REF **Catalog Number:** 12-1271
Clone: A7R34
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
Contains sodium azide

Description

The A7R34 monoclonal antibody reacts with mouse CD127, the high affinity alpha subunit of the mouse IL-7 receptor. IL-7 receptor alpha chain is expressed by immature B cells in the bone marrow, double-negative (CD4-CD8-), single-positive (CD4+ and CD8+), but not double-positive (CD4+CD8+) thymocytes. In the periphery, mature T cells express CD127 at low level. A7R34 inhibits binding of IL-7 to its receptor and has been used in *in vivo* and *in vitro* studies to elucidate the role of IL-7 in T and B cell development and activation. Binding of A7R34 blocks the binding of SB/199, another antibody which recognizes mouse CD127.

Applications Reported

The A7R34 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The A7R34 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions. This can be used at less than or equal to 0.25 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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Okuno Y, Iwasaki H, Huettner CS, Radomska HS, Gonzalez DA, Tenen DG, Akashi K. 2002. Differential regulation of the human and murine CD34 genes in hematopoietic stem cells. Proc Natl Acad Sci U S A. Apr 30;99(9):6246-51.

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Related Products
11-0031 Anti-Mouse CD3e FITC (145-2C11)
12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

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