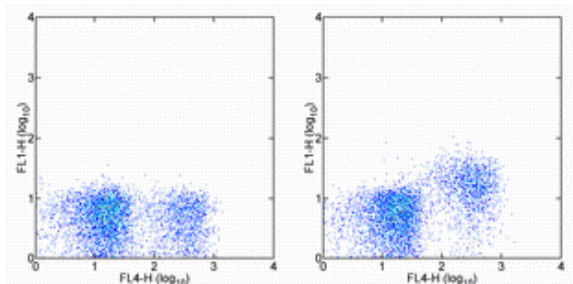


## Anti-Mouse CD127 Alexa Fluor® 488

**Catalog Number:** 53-1271

**Also Known As:** Interleukin-7 Receptor alpha, IL-7Ra

**For Research Use Only. Not for use in diagnostic procedures.**



Staining of BALB/c splenocytes with Anti-Mouse CD3e APC (cat. 17-0031) and 0.5 µg of Rat IgG2a K Isotype Control Alexa Fluor® 488 (cat. 53-4321) (left) or 0.5 µg of Anti-Mouse CD127 Alexa Fluor® 488 (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD127 Alexa Fluor® 488


**REF** **Catalog Number:** 53-1271

**Clone:** A7R34


**Concentration:** 0.5 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

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

### Applications Tested

This 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 1 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Sudo, T., S. Nishikawa, et al. 1993. Expression and function of the interleukin 7 receptor in murine lymphocytes. *Proc Natl Acad Sci U S A* 90(19): 9125-9.

Ohana M, Okazaki K, Oshima C, et al. 2001. A critical role for IL-7R signaling in the development of *Helicobacter felis*-induced gastritis in mice. *Gastroenterology*. Aug;121(2):329-36.

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.

Leithauser F, Meinhardt-Krajina T, et al. 2006. Foxp3-expressing CD103+ regulatory T cells accumulate in dendritic cell aggregates of the colonic mucosa in murine transfer colitis. *Am J Pathol*. 168(6):1898-909. (**A7R34**, IHC frozen, PubMed)

LTbetaR signaling induces cytokine expression and up-regulates lymphangiogenic factors in lymph node anlagen. Vondenhoff MF, Greuter M, Goverse G, Elewaut D, Dewint P, Ware CF, Hoorweg K, Kraal G, Mebius RE. *J Immunol*. 2009 May 1;182(9):5439-45. (**A7R34**, IF, PubMed)

### Related Products

17-0031 Anti-Mouse CD3e APC (145-2C11)  
53-4321 Rat IgG2a K Isotype Control Alexa Fluor® 488 (eBR2a)

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