

## Anti-Mouse CD127 (IL-7Ra) PerCP-Cyanine5.5

Catalogue Number : 19212-70

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

### Product Information

**Clone:** A7R34

**Format/Conjugate:** PerCP-Cyanine5.5

**Concentration:** 0.2 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm)

**Peak Emission:** 695nm

**Peak Excitation:** 482nm

**Filter:** 695/40

**Brightness (1=dim,5=brightest):** 3

**Isotype:** Rat IgG2a, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The A7R34 monoclonal antibody specifically reacts with the mouse CD127, the  $\alpha$  subunit of the IL-7 receptor, expressed by immature B lymphocytes in the bone marrow, CD4-/CD8-, CD4+, and CD8+ thymocytes, and by mature T lymphocytes at low levels. Mature T cells express CD117 at low levels in the periphery.

The A7R34 antibody prevents the interaction between IL-7 and its receptor and the binding of mAb SB/199, which also recognizes mouse CD127.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100  $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Sudo, T., Nishikawa, S. A. T. O. M. I., Ohno, N. O. R. I. K. O., Akiyama, N. A. O. K. O., Tamakoshi, M. A. S. A. T. A. D. A., Yoshida, H. I. S. A. H. I. R. O. (1993). Expression and function of the interleukin 7 receptor in murine lymphocytes.; *Proceedings of the National Academy of Sciences*; 90(19), 9125-9129.
2. Hashi, H., Yoshida, H., Honda, K., Fraser, S., Kubo, H., Awane, M., ... Nishikawa, S. I. (2001). Compartmentalization of Peyer's patch anlagen before lymphocyte entry.; *The Journal of Immunology*; 166(6), 3702-3709.
3. Okuno, Y., Iwasaki, H., Huettner, C. S., Radomska, H. S., Gonzalez, D. A., Tenen, D. G., Akashi, K. (2002). Differential regulation of the human and murine CD34 genes in hematopoietic stem cells.; *Proceedings of the National Academy of Sciences*; 99(9), 6246-6251.