ProSci

prosci-inc.com

HIGH PERFORMANCE ANTIBODIES ... AND MORE

ProSci Incorporated
12170 Flint Place
Poway, CA 92064

**Toll Free:** +1 (888) 513 9525
**Local:** +1 (858) 513 2638
**Fax:** +1 (858) 513 2692

techsupport@prosci-inc.com

# CD127 Antibody [A7R34] (Biotin)

CATALOG NUMBER: 76-909

## Specifications

| | |
|---|---|
| **SPECIES REACTIVITY:** | Mouse |
| **TESTED APPLICATIONS:** | FACS |
| **USER NOTE:** | Optimal dilutions for each application to be determined by the researcher. |
| **SPECIFICITY:** | 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. |
| **HOST SPECIES:** | Rat |

## Properties

| | |
|---|---|
| **PURIFICATION:** | The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product. |
| **PHYSICAL STATE:** | liquid |
| **BUFFER:** | Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2. |
| **CONCENTRATION:** | 0.5 mg/mL |
| **STORAGE CONDITIONS:** | The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze. |
| **CLONALITY:** | Monoclonal |
| **ISOTYPE:** | Rat IgG2a, kappa |
| **CONJUGATE:** | Biotin |

## Additional Info

| | |
|---|---|
| **ALTERNATE NAMES:** | CD127, IL-7Ralpha, Il7r |
| **OFFICIAL SYMBOL:** | Il7r |
| **GENE ID:** | 16197 |

## Background

| | |
|---|---|
| **BACKGROUND:** | 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. |
| **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 Peyers 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.