

Product Data Sheet

Biotin anti-mouse CD127 (IL-7R α)

Catalog # / Size: 135005 / 50 μ g
 135006 / 500 μ g

Clone: A7R34

Isotype: Rat IgG2a, κ

Immunogen: IL-7Ra-IgG1 fusion protein

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 μ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: In process development has shown A7R34 is able to block clone SB/199 binding to IL-7R.

Application References:

1. Sudo T, *et al.* 1993. *P. Natl. Acad. Sci. USA* 90:9125.
2. Hashi H, *et al.* 2001. *J. Immunol.* 166:3702.
3. Taylor R, *et al.* 2007. *J. Immunol.* 178:5659.
4. Mazzon C, *et al.* 2011. *Blood.* 118:2733. PubMed
5. Jin J, *et al.* 2011. *J. Immunol.* doi:10.4049/jimmunol.1001238. PubMed

Description: CD127 is a 60-90 kD type I transmembrane glycoprotein also known as IL-7 receptor α chain or IL-7R α . It forms a heterodimer with the common γ chain (γ c or CD132) which is shared with the receptors for IL-2, IL-4, IL-9, IL-13, IL-15, and IL-21. CD127 is expressed on immature B cells through early pre-B stage, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. CD127 has been reported to be an useful marker for identifying memory and effector T cells. The ligation of IL-7 with its receptor is important for stimulation of mature and immature T cells as well as immature B cells proliferation and development.

Antigen References:

1. Sudo T, *et al.* 1993. *P. Natl. Acad. Sci. USA* 90:9125.
2. Okuno Y, *et al.* 2001. *P. Natl. Acad. Sci. USA* 99:6246.
3. Pillai M, *et al.* 2004. *Leukemia Lymphoma* 45:2403.

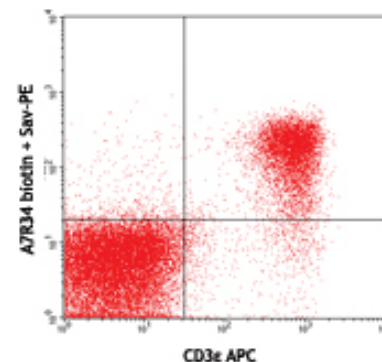
Related Products:

Product
 Biotin Rat IgG2a, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 TruStain fcX™ (anti-mouse CD16/32)

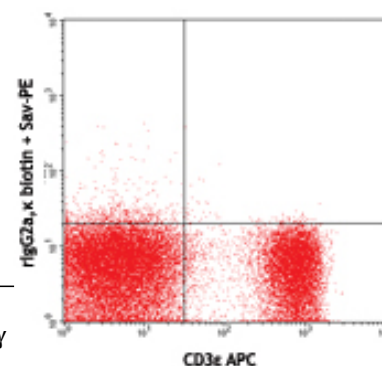
Clone
 RTK2758

93

Application
 FC, ICFC
 FC, ICC, ICFC
 FC, ICFC
 FC



C57BL/6 mouse splenocytes stained with CD3 μ (145-2C11) APC and A7R34 biotin (top) or rIgG2a, κ biotin isotype control (bottom), then developed with Sav-PE.



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.