

Product Data Sheet

PE/Cy5 anti-mouse CD127 (IL-7R α)

Catalog # / Size: 135015 / 50 μ g
135016 / 200 μ g

Clone: A7R34

Isotype: Rat IgG2a, κ

Immunogen: IL-7Ra-IgG1 fusion protein

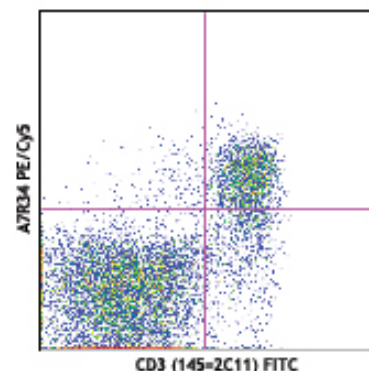
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

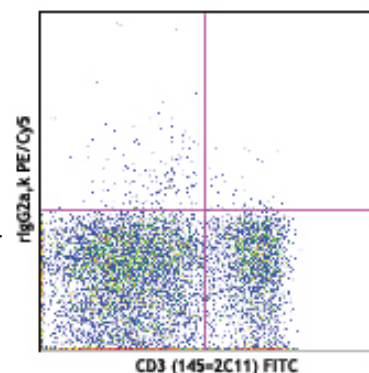
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

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



C57BL/6 mouse splenocytes stained with CD3 (145-2C11) FITC and A7R34 PE/Cy5 (top) or rat IgG2a, κ PE/Cy5 isotype control (bottom)



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 $\leq 0.15 \mu$ g per 10^6 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.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

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
 PE/Cy5 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



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