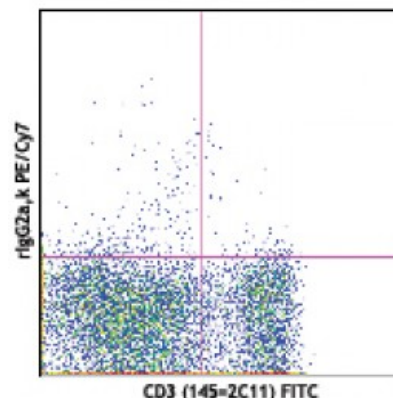


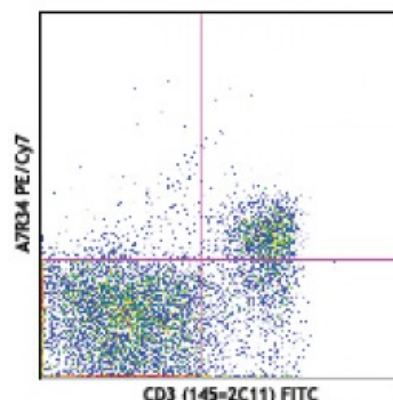
PE/Cy7 anti-mouse CD127 (IL-7R α)

Catalog # / Size:	1275070 / 100 μ g 1275065 / 25 μ g
Clone:	A7R34
Isotype:	Rat IgG2a, κ
Immunogen:	IL-7R α -IgG1 fusion protein
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	A7R34 is able to block clone SB/199 binding to IL-7R.



C57BL/6 mouse splenocytes stained with CD3 (145-2C11) FITC and A7R34 PE/Cy7 (top) or rat IgG2a, κ PE/Cy7 isotype control (bottom)

Application References:	<ol style="list-style-type: none"> 1. Sudo T, <i>et al.</i> 1993. <i>P. Natl. Acad. Sci. USA</i> 90:9125. 2. Hashi H, <i>et al.</i> 2001. <i>J. Immunol.</i> 166:3702. 3. Taylor R, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5659. 4. Mazzon C, <i>et al.</i> 2011. <i>Blood</i>. 118:2733. PubMed 5. Jin J, <i>et al.</i> 2011. <i>J. Immunol.</i> doi:10.4049/jimmunol.1001238. PubMed
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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 a 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:	<ol style="list-style-type: none"> 1. Sudo T, <i>et al.</i> 1993. <i>P. Natl. Acad. Sci. USA</i> 90:9125. 2. Okuno Y, <i>et al.</i> 2001. <i>P. Natl. Acad. Sci. USA</i> 99:6246.
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3. Pillai M, *et al.* 2004. *Leukemia Lymphoma* 45:2403.