

PerCP/Fire™ 780 anti-mouse CD127 (IL-7R α) Antibody

Catalog# / Size	135057 / 25 μ g 135058 / 100 μ g
Clone	A7R34
Regulatory Status	RUO
Other Names	IL-7 receptor α chain, IL-7R α
Isotype	Rat IgG2a, κ
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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	IL-7Ra-IgG1 fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PerCP/Fire™ 780 under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 ≤ 0.5 μ g per million cells in 100 μ L volume. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Fire 780 has a maximum excitation of 478 nm and a maximum emission of 780 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Clone A7R34 is able to completely block the binding of clone S18006K to IL-7R α . It does not block SB/199.
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. PubMed5. Jin J, <i>et al.</i> 2011. <i>J. Immunol.</i> doi:10.4049/jimmunol.1001238. PubMed
(PubMed link indicates BioLegend citation)	
RRID	AB_3662186 (BioLegend Cat. No. 135057) AB_3662186 (BioLegend Cat. No. 135058)

Antigen Details

Structure	Type I transmembrane glycoprotein, associate with CD132, 60-90 kD
Distribution	Immature B cells through early pre-B stage, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, bone marrow stromal cells
Function	T cell and immature B cell proliferation and development
Ligand/Receptor	IL-7
Cell Type	B cells, T cells, Thymocytes
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors
Antigen References	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. 3. Pillai M, <i>et al.</i> 2004. <i>Leukemia Lymphoma</i> 45:2403.
Gene ID	16197

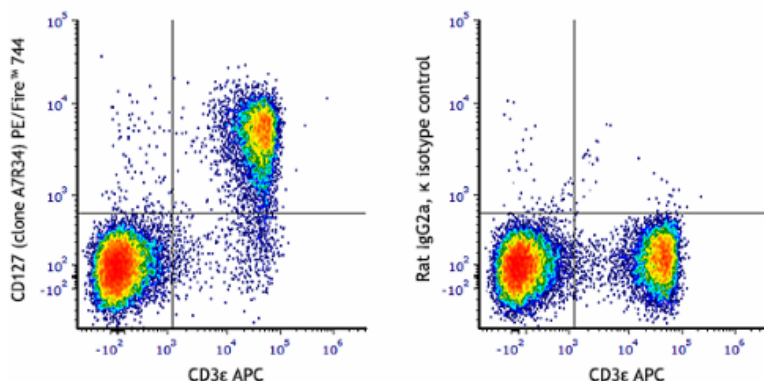
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD127 (IL-7R α), FITC anti-mouse CD127 (IL-7R α), PE anti-mouse CD127 (IL-7R α), APC anti-mouse CD127 (IL-7R α), PE/Cyanine7 anti-mouse CD127 (IL-7R α), PE/Cyanine5 anti-mouse CD127 (IL-7R α), Alexa Fluor[®] 488 anti-mouse CD127 (IL-7R α), Alexa Fluor[®] 647 anti-mouse CD127 (IL-7R α), PerCP/Cyanine5.5 anti-mouse CD127 (IL-7R α), Biotin anti-mouse CD127 (IL-7R α), Brilliant Violet 421[™] anti-mouse CD127 (IL-7R α), Brilliant Violet 605[™] anti-mouse CD127 (IL-7R α), Purified anti-mouse CD127 (IL-7R α) (Maxpar[®] Ready), PE/Dazzle[™] 594 anti-mouse CD127 (IL-7R α), Brilliant Violet 510[™] anti-mouse CD127 (IL-7R α), Brilliant Violet 711[™] anti-mouse CD127 (IL-7R α), Brilliant Violet 785[™] anti-mouse CD127 (IL-7R α), APC/Cyanine7 anti-mouse CD127 (IL-7R α), Brilliant Violet 650[™] anti-mouse CD127 (IL-7R α), TotalSeq[™]-A0198 anti-mouse CD127 (IL-7R α), TotalSeq[™]-C0198 anti-mouse CD127 (IL-7R α), Ultra-LEAF[™] Purified anti-mouse CD127 (IL-7R α), TotalSeq[™]-B0198 anti-mouse CD127 (IL-7R α), PerCP/Fire[™] 780 anti-mouse CD127 (IL-7R α), Brilliant Violet 750[™] anti-mouse CD127 (IL-7R α)

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 ϵ (clone 145-2C11) APC and anti-mouse CD127 (IL-7R α) (clone A7R34) PerCP/Fire[™] 780 (left) or rat IgG2a, κ PerCP/Fire[™] 780 isotype control (right).

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