

Alexa Fluor® 647 anti-mouse CD127 (IL-7R α) Antibody

Catalog# / Size	135019 / 25 μ g 135020 / 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-7R α -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 Alexa Fluor® 647 under optimal conditions.
Concentration	0.5 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 ≤ 1.0 μ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Red Laser (633 nm)
Application Notes	A7R34 is able to block clone SB/199 binding to IL-7R.
Application References	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
(PubMed link indicates BioLegend citation)	
Product Citations	1. Doisne J, <i>et al.</i> 2015. <i>J Immunol.</i> 195: 3937 - 3945.. PubMed 2. Zhu Y, <i>et al.</i> 2021. <i>EMBO J.</i> 40:e105320. PubMed

3. Balzano M *et al.* 2019. *Cell reports*. 26(12):3257-3271 . [PubMed](#)
4. Shen B, *et al.* 2021. *Nature*. 591:438. [PubMed](#)
5. Corrado M, *et al.* 2020. *Cell Metab*. 32:981. [PubMed](#)

RRID AB_1937210 (BioLegend Cat. No. 135019)
 AB_1937209 (BioLegend Cat. No. 135020)

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	<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. 3. Pillai M, <i>et al.</i> 2004. <i>Leukemia Lymphoma</i> 45:2403.
Gene ID	16197

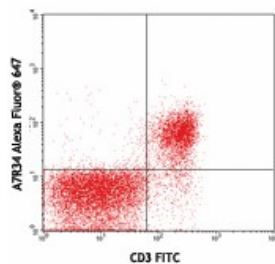
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

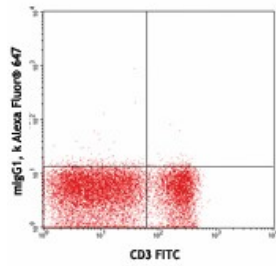
Other Formats

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 $\text{\textcircled{R}}$ 488 anti-mouse CD127 (IL-7R α), Alexa Fluor $\text{\textcircled{R}}$ 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 TM anti-mouse CD127 (IL-7R α), Brilliant Violet 605 TM anti-mouse CD127 (IL-7R α), Purified anti-mouse CD127 (IL-7R α) (Maxpar $\text{\textcircled{R}}$ Ready), PE/Dazzle TM 594 anti-mouse CD127 (IL-7R α), Brilliant Violet 510 TM anti-mouse CD127 (IL-7R α), Brilliant Violet 711 TM anti-mouse CD127 (IL-7R α), Brilliant Violet 785 TM anti-mouse CD127 (IL-7R α), APC/Cyanine7 anti-mouse CD127 (IL-7R α), Brilliant Violet 650 TM anti-mouse CD127 (IL-7R α), TotalSeq TM -A0198 anti-mouse CD127 (IL-7R α), TotalSeq TM -C0198 anti-mouse CD127 (IL-7R α), Ultra-LEAF TM Purified anti-mouse CD127 (IL-7R α), TotalSeq TM -B0198 anti-mouse CD127 (IL-7R α)

Product Data



Mouse splenocytes stained with CD3 FITC and A7R34 Alexa Fluor $\text{\textcircled{R}}$ 647 (top) or rat IgG2a, κ isotype control Alexa Fluor $\text{\textcircled{R}}$ 647 (bottom)



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