

APC anti-mouse CD127 (IL-7R α) Antibody

Catalog# / Size	135011 / 25 μ g 135012 / 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 APC 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 \leq 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.
Excitation Laser	Red Laser (633 nm)
Application Notes	A7R34 is able to block clone SB/199 binding to IL-7R.
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
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> 1. Sharma GP, <i>et al.</i> 2021. <i>PLoS One.</i> 16:e0259042. PubMed 2. Misumi I <i>et al.</i> 2019. <i>Cell Rep.</i> 27(2):514-524 . PubMed 3. Paprckova D, <i>et al.</i> 2022. <i>Front Immunol.</i> 13:1009198. PubMed 4. Mitchell JE, <i>et al.</i> 2021. <i>Cell Reports.</i> 35(2):108966. PubMed 5. Kurkewich J, <i>et al.</i> 2016. <i>PLoS One.</i> 11: 0161468. PubMed 6. Davidson S, <i>et al.</i> 2020. <i>Cell Reports.</i> 31(7):107628. PubMed 7. Ramos CV, <i>et al.</i> 2020. <i>Cell Reports.</i> 32(3):107910. PubMed

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RRID AB_1937217 (BioLegend Cat. No. 135011)
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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

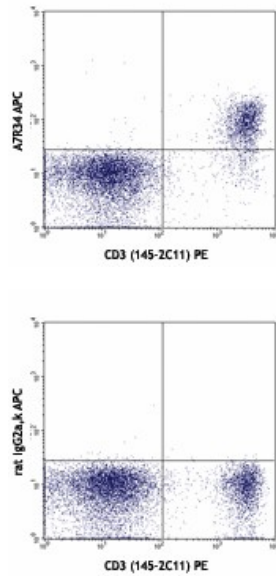
[Cell Surface Flow Cytometry Staining Protocol](#)

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[®] 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)

Product Data

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



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