

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

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| Catalog# / Size | 135009 / 50 μ g 135010 / 200 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

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| 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 PE 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 ≤ 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. |
| Excitation Laser | Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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. Zheng X, <i>et al.</i> 2019. <i>PLoS Pathog.</i> 15:e1008036. PubMed 2. Petrova T, <i>et al.</i> 2020. <i>Sci Rep.</i> 10:3479. PubMed 3. Garo LP, <i>et al.</i> 2021. <i>Nat Commun.</i> 12:2419. PubMed 4. Wang D, <i>et al.</i> 2018. <i>Immunity.</i> 48:659. PubMed 5. Gupta SS, <i>et al.</i> 2019. <i>Cell Rep.</i> 29:1862. PubMed 6. Wei H, <i>et al.</i> 2021. <i>Malar J.</i> 20:89. PubMed |

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RRID AB_1937252 (BioLegend Cat. No. 135009)
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Antigen Details

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| 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 |

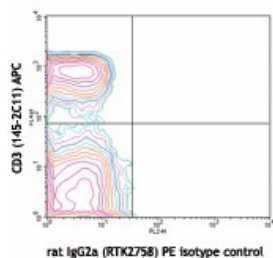
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

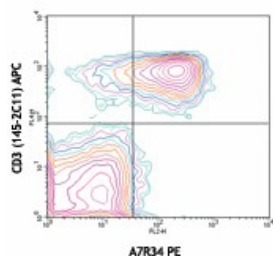
Other Formats

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)

Product Data



C57BL/6 mouse splenocytes stained with rat IgG2a (RTK2758) PE isotype control and CD3 (145-2C11) APC



C57BL/6 mouse splenocytes stained with A7R34 PE and CD3 (145-2C11) APC

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