

## APC/Fire™ 810 anti-human CD127 (IL-7Rα) Antibody

<b>Catalog# / Size</b>	351373 / 25 tests 351374 / 100 tests
<b>Clone</b>	A019D5
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	IL-7 receptor α chain, IL-7Rα
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD127 is a 60-90 kD type I transmembrane glycoprotein also known as IL-7 receptor α chain or IL-7Rα. It forms a heterodimer with the common γ chain (γc 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 cells, 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. Studies have shown that CD127 expression is down-modulated on Treg cells. It can be used as a marker for differentiation of Treg and conventional 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 cell proliferation and development.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	African Green, Baboon, Cynomolgus, Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Recombinant human CD127
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 810 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze</b> .
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.  * APC/Fire™ 810 has a maximum excitation of 650 nm and a maximum emission of 810 nm.  Excessive exposure to light, and commonly used fixation, permeabilization buffers can affect APC/Fire™ 810 fluorescence signal intensity and spread. Please keep conjugates protected from light exposure. For more information and representative data, visit our <a href="#">Fire Dyes</a> page.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported (for the relevant formats) application: proteogenomics <sup>1</sup> .
<b>Application References</b>	1. Peterson VM, <i>et al.</i> 2017. <i>Nat. Biotechnol.</i> 35:936. (PG)
<b>RRID</b>	AB_2904371 (BioLegend Cat. No. 351373) AB_2904371 (BioLegend Cat. No. 351374)

## Antigen Details

<b>Structure</b>	Type I transmembrane glycoprotein, associates with CD132, 60-90 kD
<b>Distribution</b>	Immature B cells through early pre-B stage, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, bone marrow stromal cells
<b>Function</b>	T cell and immature B cell proliferation and development
<b>Ligand/Receptor</b>	IL-7
<b>Cell Type</b>	B cells, T cells, Thymocytes, Tregs
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Sudo T, <i>et al.</i> 1993. <i>P. Natl. Acad. Sci. USA</i> 90:9125.</li><li>2. He YW and Malek TR. 1998. <i>Crit. Rev. Immunol.</i> 18:503.</li><li>3. Huster KM, <i>et al.</i> 2004. <i>P. Natl. Acad. Sci. USA</i> 101:5610.</li><li>4. Pillai M, <i>et al.</i> 2004. <i>Leukemia Lymphoma</i> 45:2403.</li><li>5. Morrissey PJ, <i>et al.</i> 1989. <i>J. Exp. Med.</i> 169:707.</li><li>6. Liu W, <i>et al.</i> 2006. <i>J. Exp. Med.</i> 203:1701.</li></ol>
<b>Gene ID</b>	<a href="#">3575</a>

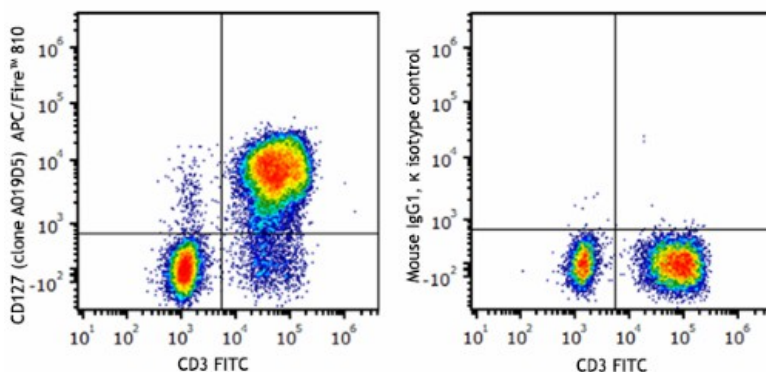
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human CD127 (IL-7R $\alpha$ ), PE anti-human CD127 (IL-7R $\alpha$ ), Pacific Blue™ anti-human CD127 (IL-7R $\alpha$ ), Brilliant Violet 421™ anti-human CD127 (IL-7R $\alpha$ ), FITC anti-human CD127 (IL-7R $\alpha$ ), Alexa Fluor® 488 anti-human CD127 (IL-7R $\alpha$ ), APC anti-human CD127 (IL-7R $\alpha$ ), Alexa Fluor® 647 anti-human CD127 (IL-7R $\alpha$ ), PE/Cyanine7 anti-human CD127 (IL-7R $\alpha$ ), PerCP/Cyanine5.5 anti-human CD127 (IL-7R $\alpha$ ), Brilliant Violet 570™ anti-human CD127 (IL-7R $\alpha$ ), PE/Cyanine5 anti-human CD127 (IL-7R $\alpha$ ), Brilliant Violet 650™ anti-human CD127 (IL-7R $\alpha$ ), Brilliant Violet 711™ anti-human CD127 (IL-7R $\alpha$ ), Brilliant Violet 785™ anti-human CD127 (IL-7R $\alpha$ ), Brilliant Violet 510™ anti-human CD127 (IL-7R $\alpha$ ), Brilliant Violet 605™ anti-human CD127 (IL-7R $\alpha$ ), PE/Dazzle™ 594 anti-human CD127 (IL-7R $\alpha$ ), Purified anti-human CD127 (IL-7R $\alpha$ ) (Maxpar® Ready), Alexa Fluor® 700 anti-human CD127 (IL-7R $\alpha$ ), Biotin anti-human CD127 (IL-7R $\alpha$ ), APC/Cyanine7 anti-human CD127 (IL-7R $\alpha$ ), APC/Fire™ 750 anti-human CD127 (IL-7R $\alpha$ ), TotalSeq™-A0390 anti-human CD127 (IL-7R $\alpha$ ), TotalSeq™-B0390 anti-human CD127 (IL-7R $\alpha$ ), TotalSeq™-C0390 anti-human CD127 (IL-7R $\alpha$ ), KIRAVIA Blue 520™ anti-human CD127 (IL-7R $\alpha$ ), Spark NIR™ 685 anti-human CD127 (IL-7R $\alpha$ ), PE/Fire™ 640 anti-human CD127 (IL-7R $\alpha$ ), PE/Fire™ 700 anti-human CD127 (IL-7R $\alpha$ ) Antibody, Spark YG™ 581 anti-human CD127 (IL-7R $\alpha$ ), Brilliant Violet 750™ anti-human CD127 (IL-7R $\alpha$ ), TotalSeq™-D0390 anti-human CD127 (IL-7R $\alpha$ ), APC/Fire™ 810 anti-human CD127 (IL-7R $\alpha$ ) Antibody, APC/Fire™ 750 anti-human CD127, PE anti-human CD127, PerCP/Cyanine5.5 anti-human CD127, PE/Cyanine7 anti-human CD127, Spark Red™ 718 anti-human CD127 (IL-7R $\alpha$ )

## Product Data



Human peripheral blood lymphocytes were stained with anti-human CD127 (clone A019D5) APC/Fire™ 810 (left) or mouse IgG1, κ APC/Fire™ 810 isotype control (right).

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