

APC/Fire™ 810 anti-mouse CD127 (IL-7R α) Antibody

Catalog# / Size	158219 / 25 μ g 158220 / 100 μ g
Clone	S18006K
Regulatory Status	RUO
Other Names	IL-7 receptor α chain, IL-7R α
Isotype	Rat IgG2b, λ
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	Mouse IL7R-transfectants
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 810 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. * 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 Fire Dyes page.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone S18006K is able to completely block the binding of clone SB/199 and partially block the binding of clone A7R34 to IL-7R α .
RRID	AB_3662198 (BioLegend Cat. No. 158219) AB_3662198 (BioLegend Cat. No. 158220)

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, Signal Transduction
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors
Antigen References	<ol style="list-style-type: none"> 1. Sudo T, <i>et al.</i> 1993. <i>Proc Natl Acad Sci USA.</i> 90:9125. 2. Okuno Y, <i>et al.</i> 2002. <i>Proc Natl Acad Sci USA.</i> 99:6246. 3. Pillai M, <i>et al.</i> 2004. <i>Leuk Lymphoma.</i> 45:2403.
Gene ID	16197

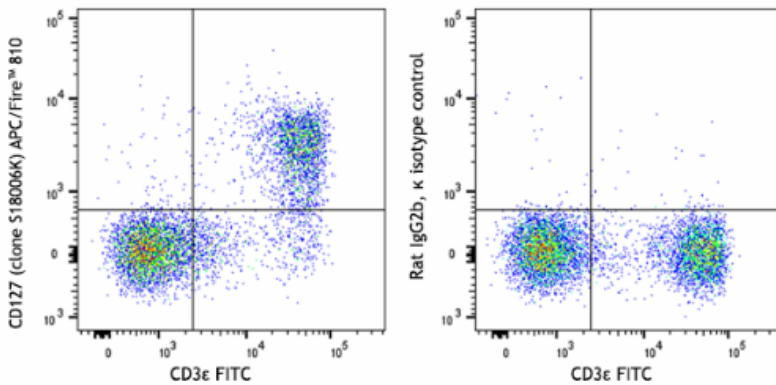
Related Protocols

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

Other Formats

Purified anti-mouse CD127 (IL-7R α), PE anti-mouse CD127 (IL-7R α), APC anti-mouse CD127 (IL-7R α) Antibody, FITC anti-mouse CD127 (IL-7R α), KIRAVIA Blue 520™ anti-mouse CD127 (IL-7R α), PE/Cyanine7 anti-mouse CD127 (IL-7R α), PE/Fire™ 640 anti-mouse CD127 (IL-7R α), PE/Fire™ 700 anti-mouse CD127 (IL-7R α), PE/Fire™ 744 anti-mouse CD127 (IL-7R α), APC/Fire™ 810 anti-mouse CD127 (IL-7R α), PerCP/Fire™ 806 anti-mouse CD127 (IL-7R α), PerCP/Fire™ 780 anti-mouse CD127 (IL-7R α) Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 ϵ (clone 145-2C11) FITC and anti-mouse CD127 (IL-7R α) (clone S18006K) APC/Fire™ 810 (left) or rat IgG2b, κ APC/Fire™ 810 isotype control (right).

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