

PE/Fire™ 744 anti-mouse CD127 (IL-7R α) Antibody

Catalog# / Size	158217 / 25 μ g 158218 / 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 a 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 PE/Fire™ 744 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	<p>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 ≤ 0.125 μg per million cells in 100 μL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages.</p> <p>* PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm.</p>
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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_3675008 (BioLegend Cat. No. 158217) AB_3675008 (BioLegend Cat. No. 158218)

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

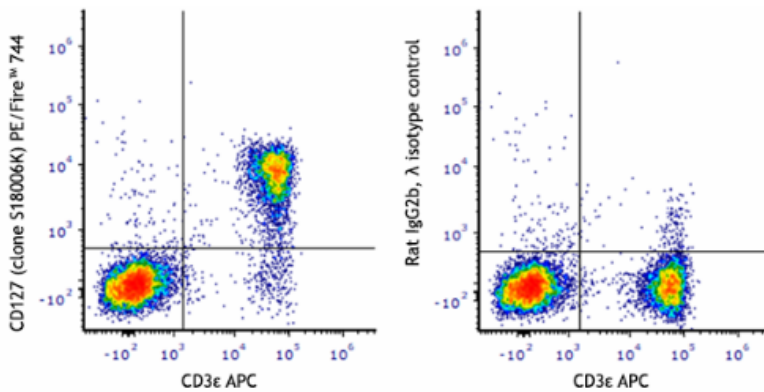
Related Protocols

- [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) APC and anti-mouse CD127 (IL-7R α) (clone S18006K) PE/Fire™ 744 (left) or rat IgG2b, λ PE/Fire™ 744 isotype control (right).

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