

Spark PLUS UV395™ anti-mouse CD127 (IL-7Rα) Antibody

Catalog# / Size	158225 / 25 µg 158226 / 100 µg
Clone	S18006K
Regulatory Status	RUO
Other Names	IL-7 receptor α chain, IL-7Rα
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-7Rα. It forms a heterodimer with the common γ chain (yc 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 Spark PLUS UV395™ 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 ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 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-7Rα.

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

1. Sudo T, *et al.* 1993. *Proc Natl Acad Sci USA*. 90:9125.
2. Okuno Y, *et al.* 2002. *Proc Natl Acad Sci USA*. 99:6246.
3. Pillai M, *et al.* 2004. *Leuk Lymphoma*. 45:2403.

Gene ID [16197](#)

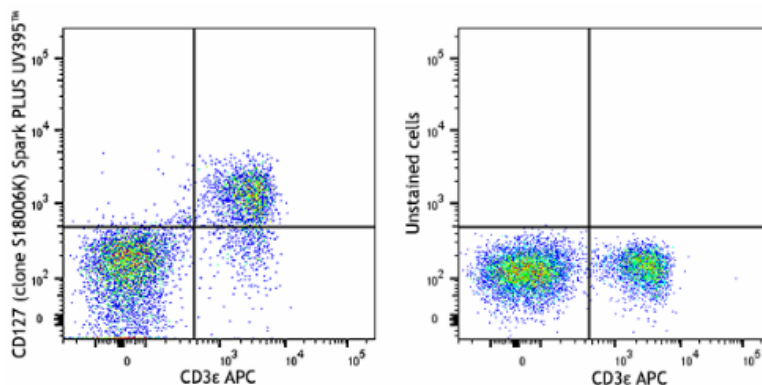
Related Protocols

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

Other Formats

FITC anti-mouse CD127 (IL-7R α), KIRAVIA Blue 520TM anti-mouse CD127 (IL-7R α), PE/Cyanine7 anti-mouse CD127 (IL-7R α), APC anti-mouse CD127 (IL-7R α) Antibody, PE/FireTM 700 anti-mouse CD127 (IL-7R α), PE/FireTM 640 anti-mouse CD127 (IL-7R α), APC/FireTM 810 anti-mouse CD127 (IL-7R α), PE/FireTM 744 anti-mouse CD127 (IL-7R α), PerCP/FireTM 780 anti-mouse CD127 (IL-7R α) Antibody, Purified anti-mouse CD127 (IL-7R α), PerCP/FireTM 806 anti-mouse CD127 (IL-7R α), Spark PLUS UV395TM anti-mouse CD127 (IL-7R α) Antibody, PE anti-mouse CD127 (IL-7R α)

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) Spark PLUS UV395TM (left) or stained with anti-mouse CD3 (clone 145-2C11) APC only (right).

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