

Spark PLUS B488™ anti-mouse CD127 (IL-7Rα) Antibody

Catalog# / Size	135061 / 25 µg 135062 / 100 µg
Clone	A7R34
Regulatory Status	RUO
Other Names	IL-7 receptor α chain, IL-7Rα
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-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	IL-7Rα-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 Spark PLUS B488™ 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 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS B488™ has a maximum excitation of 499 nm and a maximum emission of 520 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Clone A7R34 is able to completely block the binding of clone S18006K to IL-7Rα. It does not block SB/199.
Application References	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)	

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
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

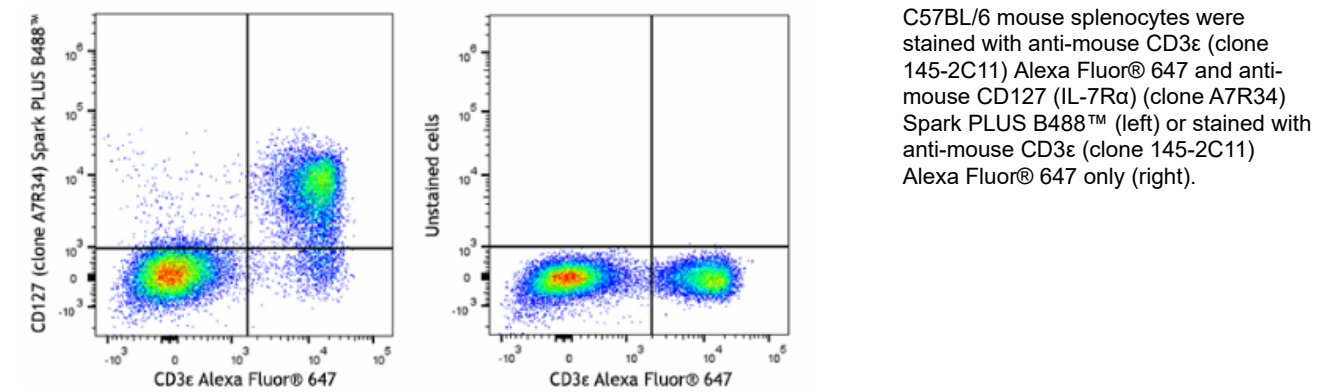
Related Protocols

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

Other Formats

Purified anti-mouse CD127 (IL-7Rα) (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse CD127 (IL-7Rα), Brilliant Violet 711™ anti-mouse CD127 (IL-7Rα), Brilliant Violet 510™ anti-mouse CD127 (IL-7Rα), Brilliant Violet 785™ anti-mouse CD127 (IL-7Rα), Brilliant Violet 650™ anti-mouse CD127 (IL-7Rα), APC/Cyanine7 anti-mouse CD127 (IL-7Rα), PE anti-mouse CD127 (IL-7Rα), PE/Cyanine7 anti-mouse CD127 (IL-7Rα), Purified anti-mouse CD127 (IL-7Rα), Brilliant Violet 421™ anti-mouse CD127 (IL-7Rα), FITC anti-mouse CD127 (IL-7Rα), APC anti-mouse CD127 (IL-7Rα), Brilliant Violet 605™ anti-mouse CD127 (IL-7Rα), PerCP/Fire™ 780 anti-mouse CD127 (IL-7Rα), Brilliant Violet 750™ anti-mouse CD127 (IL-7Rα), Spark NIR™ 685 anti-mouse CD127 (IL-7Rα) (Flexi-Fluor™), TotalSeq™-C0198 anti-mouse CD127 (IL-7Rα), Ultra-LEAF™ Purified anti-mouse CD127 (IL-7Rα), TotalSeq™-A0198 anti-mouse CD127 (IL-7Rα), PE/Cyanine5 anti-mouse CD127 (IL-7Rα), Alexa Fluor® 488 anti-mouse CD127 (IL-7Rα), Alexa Fluor® 647 anti-mouse CD127 (IL-7Rα), PerCP/Cyanine5.5 anti-mouse CD127 (IL-7Rα), Biotin anti-mouse CD127 (IL-7Rα), Spark PLUS B488™ anti-mouse CD127 (IL-7Rα), Spark UV™ 387 anti-mouse CD127 (IL-7Rα) (Flexi-Fluor™), Spark YG™ 581 anti-mouse CD127 (IL-7Rα) (Flexi-Fluor™), Spark YG™ 593 anti-mouse CD127 (IL-7Rα) (Flexi-Fluor™), TotalSeq™-B0198 anti-mouse CD127 (IL-7Rα)

Product Data



For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587