



GMP PE/Cyanine7 anti-human CD127 (IL-7Rα) Antibody

Catalog# / Size 260286 / 100 tests

Clone A019D5

Other Names IL-7 receptor α chain, IL-7Rα

Isotype Mouse IgG1, 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 (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

Reactivity Human

Reported Reactivity African Green, Baboon, Cynomolgus, Rhesus

Antibody Type Monoclonal

Host Species Mouse

Immunogen Recombinant human CD127

Formulation Phosphate-buffered solution, pH 7.2, containing True-Stain Monocyte Blocker™, 0.09% sodium

azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.

Preparation The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under

optimal conditions.

Concentration 100.0 µg/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

<u>analysis</u>. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be

titrated for optimal performance for each application.

Excitation Laser Blue Laser (488 nm)

Green Laser (532 nm)/Yellow-Green Laser (561 nm)

Application Notes Additional reported (for the relevant formats) application: proteogenomics 1.

Application References

1. Peterson VM, et al. 2017. Nat. Biotechnol. 35:936. (PG)

(PubMed link indicates BioLegend citation)

Disclaimer

GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies

are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

· Batch-to-batch consistency

- Material traceability
- Documented procedures
- Documented employee training

- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- · QA review of released products

Antigen Details

Structure Type I transmembrane glycoprotein, associates 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

Cell Type B cells, T cells, Thymocytes, Tregs

Biology Area Immunology

Molecular Family CD Molecules, Cytokine/Chemokine Receptors

Antigen References 1. Sudo T, et al. 1993. P. Natl. Acad. Sci. USA 90:9125.

He YW and Malek TR. 1998. Crit. Rev. Immunol. 18:503.
Huster KM, et al. 2004. P. Natl. Acad. Sci. USA 101:5610.
Pillai M, et al. 2004. Leukemia Lymphoma 45:2403.
Morrissey PJ, et al. 1989. J. Exp. Med. 169:707.
Liu W, et al. 2006. J. Exp. Med. 203:1701.

Gene ID 3575

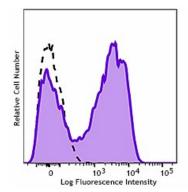
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

Purified anti-human CD127 (IL-7Rα), PE anti-human CD127 (IL-7Rα), Pacific Blue™ anti-human CD127 (IL-7Rα), Brilliant Violet 421™ anti-human CD127 (IL-7Rα), FITC anti-human CD127 (IL-7Rα), Alexa Fluor® 488 anti-human CD127 (IL-7Rα), APC anti-human CD127 (IL-7Rα), Alexa Fluor® 647 anti-human CD127 (IL-7Rα), PE/Cyanine7 anti-human CD127 (IL-7Rα), PE/Cyanine5.5 anti-human CD127 (IL-7Rα), Brilliant Violet 570™ anti-human CD127 (IL-7Rα), PE/Cyanine5 anti-human CD127 (IL-7Rα), Brilliant Violet 650™ anti-human CD127 (IL-7Rα), Brilliant Violet 711™ anti-human CD127 (IL-7Rα), Brilliant Violet 785™ anti-human CD127 (IL-7Rα), Brilliant Violet 510™ anti-human CD127 (IL-7Rα), Brilliant Violet 605™ anti-human CD127 (IL-7Rα), PE/Dazzle™ 594 anti-human CD127 (IL-7Rα), Perified anti-human CD127 (IL-7Rα), APC/Fire™ 750 anti-human CD127 (IL-7Rα), TotalSeq™-A0390 anti-human CD127 (IL-7Rα), TotalSeq™-B0390 anti-human CD127 (IL-7Rα), TotalSeq™-C0390 anti-human CD127 (IL-7Rα), KIRAVIA Blue 520™ anti-human CD127 (IL-7Rα), Spark NIR™ 685 anti-human CD127 (IL-7Rα), PE/Fire™ 640 anti-human CD127 (IL-7Rα), PE/Fire™ 700 anti-human CD127 (IL-7Rα), APC/Fire™ 810 anti-human CD127 (IL-7Rα), Brilliant Violet 750™ anti-human CD127 (IL-7Rα), TotalSeq™-D0390 anti-human CD127 (IL-7Rα), APC/Fire™ 810 anti-human CD127 (IL-7Rα

Product Data



Typical results from human peripheral blood lymphocytes stained either with A019D5 PE/Cyanine7 used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

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