PerCP/Cy5.5 anti-human CD127 (IL-7Rα)

Catalog # / Size: 2356605 / 25 tests

2356610 / 100 tests

Clone: A019D5

Isotype: Mouse IgG1, κ

Immunogen: Recombinant human CD127

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated

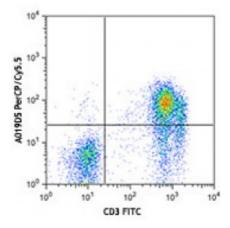
antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 FITC and CD127 (clone A019D5) PerCP/Cy5.5 (top) or mouse IgG1 PerCP/Cy5.5 isotype control (bottom).

Applications:

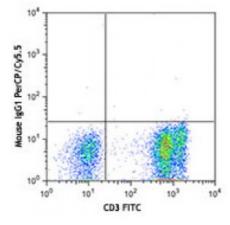
Applications: Flow Cytometry

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 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.



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 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.

Antigen References:

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.

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