SONY

Product Data Sheet

PE/Cyanine7 anti-mouse CD127 (IL-7Rα)

Catalog # / Size: 1205595 / 25 µg
1205600 / 100 µg

Clone: SB/199

Isotype: Rat IgG2b, κ

Immunogen: mouse pre-B cell line 1A9

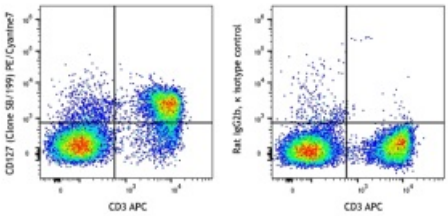
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



C57BL/6 splenocytes stained with mouse CD127 (IL-7rα) (clone SB/199) PE/Cyanine7 and CD3 APC (left) or Rat IgG2b, κ PE/Cyanine7 isotype control (right).

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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: To reduce non-specific binding to cells bearing Fc-receptors, pre-incubation of cells with anti-mouse CD16/CD32, clone 93 (Cat. No. 1106505/1106510), is recommended prior to immunofluorescent staining.

Application References:

1. Yamashita Y, *et al.* 1999. *J. Immunol.* 162:5940.
2. Kouro T, *et al.* 2002. *Blood* 100:3672.
3. Maeda K, *et al.* 2005. *Blood* 106:879.
4. Diao J, *et al.* 2004. *J. Immunol.* 173:1826.

Description: CD127 is a 60-90 kD type I transmembrane glycoprotein, also known as IL-7 receptor α chain or IL-7Rα. It forms 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, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. CD127 has been reported to be an 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.

Antigen References:

1. Sudo T, *et al.* 1993. *Proc. Natl. Acad. Sci. USA.* 90:9125.
2. He YW and Malek TR. 1998. *Crit Rev. Immunol.* 18:503.
3. Huster K M,*et al.* 2004. *Proc. Natl. Acad. Sci. USA.* 101:5610.
4. Pillai M, *et al.* 2004. *Leuk Lymphoma.* 45:2403.
5. Morrissey PJ, *et al.* 1989. *J. Exp. Med.* 169:707.

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