Biotin anti-mouse CD127 (IL-7Rα)

Catalog # / Size: 1205515 / 50 μg

1205520 / 500 µg

Clone: SB/199

Isotype: Rat IgG2b, κ

Immunogen: mouse pre-B cell line 1A9

Reactivity: Mouse

Preparation: The antibody was purified by affinity

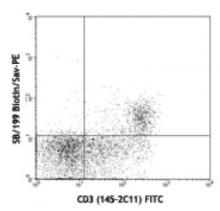
chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.5

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C57BL/6 splenocytes stained with SB/199 biotin followed by Sav-PE and CD3 (145-C11) FITC

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 microg per million cells in 100 microL 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. 101301/101302), is recommended prior to immunofluorescent staining.

Application References:

1. Yamashita Y, et al. 1999. J. Immunol. 162:5940.

ferences: 2. Kouro T, *et al.* 2002. *Blood* 100:3672.

Maeda K, et al. 2005. Blood 106:879.
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-7R α . It forms 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, CD137 is expressed on imparture B collections and IL-21 CD137 is expressed on imparture B collections.

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.