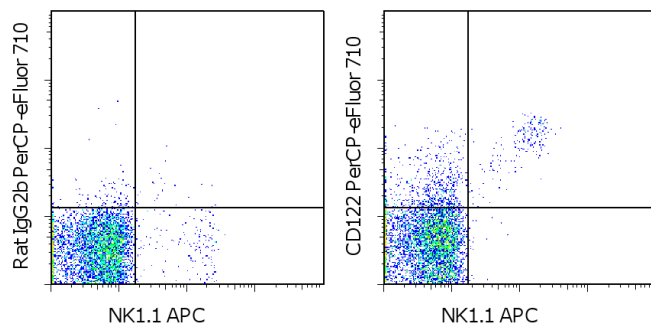


Anti-Mouse CD122 PerCP-eFluor® 710

Catalog Number: 46-1222

Also known as: Interleukin-2 Receptor beta, IL-2Rb

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 splenocytes with Anti-Mouse NK1.1 APC (cat. 17-5941) and 0.06 ug of Rat IgG2b K Isotype Control PerCP-eFluor® 710 (cat. 46-4031) (left) or 0.06 ug of Anti-Mouse CD122 PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD122 PerCP-eFluor® 710



Catalog Number: 46-1222

Clone: TM-b1 (TM-beta 1)

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.



Batch Code: Refer to vial



Use By: Refer to vial



Contains sodium azide

Description

The TM-b1 monoclonal antibody reacts with mouse CD122, the 90-110 kDa interleukin-2 receptor beta chain (IL-2R beta). CD122 is expressed by NK cells and some T cells in the periphery, and is upregulated by activation. CD122 associates with CD25 and CD132 (common gamma chain) to form the high affinity IL-2 receptor. High affinity binding of IL-2 to the IL-2 receptor is inhibited by the TM-b1 antibody.

Applications Reported

This TM-b1 (TM-beta 1) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This TM-b1 (TM-beta 1) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

French JD, Roark CL, Born WK, O'Brien RL. Gamma delta T cell homeostasis is established in competition with alpha beta T cells and NK cells. Proc Natl Acad Sci U S A. 2005 Oct 11;102(41):14741-6. (**TM-b1**, FA blocking, PubMed)

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Takeuchi Y, Tanaka T, Hamamura K, Sugimoto T, Miyasaka M, Yagita H, Okumura K. 1992. Expression and role of interleukin-2 receptor beta chain on CD4-CD8- T cell receptor alpha beta+ cells. *Eur J Immunol.* 22(11):2929-35.

Tanaka T, Takeuchi Y, Shiohara T, Kitamura F, Nagasaka Y, Hamamura K, Yagita H, Miyasaka M. 1992. In utero treatment with monoclonal antibody to IL-2 receptor beta-chain completely abrogates development of Thy-1+ dendritic epidermal cells. *Int Immunol.* 4(4):487-91.

Related Products

17-5941 Anti-Mouse NK1.1 APC (PK136)

46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710