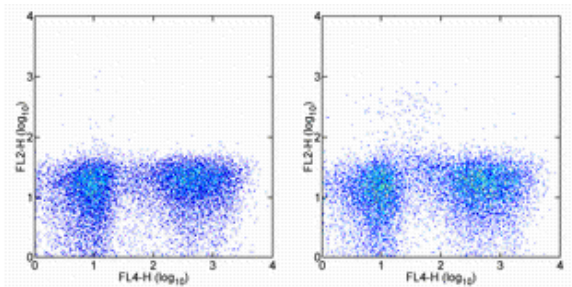


Anti-Mouse CD123 PE

Catalog Number: 12-1231

Also Known As: Interleukin-3 Receptor alpha

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



Staining of C57BL/6 bone marrow cells with Anti-Mouse CD11b APC (cat. 17-0112) and 0.5 ug of Rat IgG2a K Isotype Control PE (cat. 12-4321) (left) or 0.5 ug of Anti-Mouse CD123 PE (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD123 PE


REF **Catalog Number:** 12-1231

Clone: 5B11

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, kappa

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.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Contains sodium azide**

Description

The 5B11 monoclonal antibody reacts with mouse CD123, the alpha chain of the IL-3 receptor. This 60-70 kDa transmembrane protein binds to IL-3 with low affinity by itself and when associated with either CD131 (common beta chain) or AIC2A (IL-3beta) binds IL-3 with high affinity. CD123 does not transduce any intracellular signals upon binding IL-3 and requires the beta chain for this function.

Applications Reported

The 5B11 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The 5B11 antibody has been tested by flow cytometric analysis of mouse bone marrow cell suspensions. This can be used at less than or equal to 0.5 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.

References

Ichihara, M., T. Hara, et al. (1995). Impaired interleukin-3 (IL-3) response of the A/J mouse is caused by a branch point deletion in the IL-3 receptor alpha subunit gene. *Embo J* 14(5): 939-50.

Mueller, D. L., Z. M. Chen, et al. (1994). Subset of CD4+ T cell clones expressing IL-3 receptor alpha-chains uses IL-3 as a cofactor in autocrine growth. *J Immunol* 153(7): 3014-27.

Related Products

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

17-0112 Anti-Mouse CD11b APC (M1/70)

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