eBioscience
the new standard of excellence™

Tel: 888.999.1371 or 858.642.2058
Fax: 858.642.2046
Web: www.ebioscience.com
E-mail: info@ebioscience.com

Product Information

Contents: Biotin anti-mouse CD123 (interleukin-3 receptor α, IL-3Rα)
Catalog Number: 13-1231
Sizes: 50 ug, 100 ug, 500 ug
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN_3
Storage Conditions: Store at 4°C.
DO NOT FREEZE.
Clone: 5B11
Isotype: Rat IgG2a, κ

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-1231	Fluorescein isothiocyanate (FITC) anti-mouse CD123 (Interleukin-3 Receptor alpha, IL-3 Receptor alpha, IL-3Ra)	488	518	FC
12-1231	PE anti-mouse CD123 (Interleukin-3 Receptor alpha, IL-3 Receptor alpha, IL-3Ra)	488	575	FC
13-1231	Biotin anti-mouse CD123 (Interleukin-3 Receptor alpha, IL-3 Receptor alpha, IL-3Ra)	N/A	N/A	FC
14-1231	Affinity Purified anti-mouse CD123 (Interleukin-3 Receptor alpha, IL-3 Receptor alpha, IL-3Ra)	N/A	N/A	FC

Description

The 5B11 monoclonal antibody reacts with mouse CD123, the α 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 β chain) or AIC2A (IL-3β) binds IL-3 with high affinity. CD123 does not transduce any intracellular signals upon binding IL-3 and requires the β chain for this function.

Usage

For research use only, not for diagnostic or therapeutic use. 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 0.25 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 12-1231 PE anti-mouse CD123 (Interleukin-3 Receptor alpha, IL-3 Receptor alpha, IL-3Ra) (clone 5B11)
Cat. 14-1231 Affinity Purified anti-mouse CD123 (Interleukin-3 Receptor alpha, IL-3 Receptor alpha, IL-3Ra) (clone 5B11)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 13-4321 Biotin Rat IgG2a Isotype Control

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.