

# CD123 Monoclonal Antibody (5B11), APC, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	5B11
Conjugate	APC
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_891363

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.5 µg/test	1 Publication

## Product Specific Information

**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.

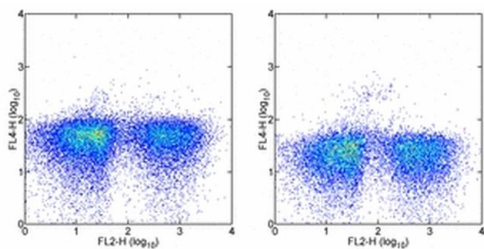
**Applications Reported:** This 5B11 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 5B11 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

## Product Images For CD123 Monoclonal Antibody (5B11), APC, eBioscience™



### CD123 Antibody (17-1231-81) in Flow

Staining of BALB/c bone marrow cells with Anti-Mouse CD11b PE (Product # 12-0112-82) and 0.25 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (left) or 0.25 µg of Anti-Mouse CD123 APC (right). Total viable cells were used for analysis.

## 1 Reference

### Flow Cytometry (1)

Journal of immunology (Baltimore, Md. : 1950)

#### Therapeutic effect of IVIG on inflammatory arthritis in mice is dependent on the Fc portion and independent of sialylation or basophils.

"17-1231 was used in Flow cytometry/Cell sorting to investigate the mechanism of action of high-dose i.v. Ig in treating autoimmune and inflammatory diseases."

Authors: Campbell IK, Miescher S, Branch DR, Mott PJ, Lazarus AH, Han D, Maraskovsky E, Zuercher AW, Neschadim A, Leontyev D, McKenzie BS, Käsermann F

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2014

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