Elab Fluor®647 Anti-Mouse CD123 Antibody[5B11]

Catalog Number: AN00962M

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

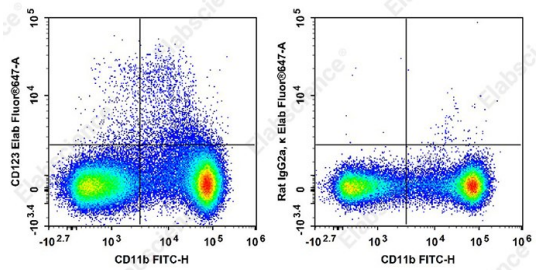
Description

Reactivity	Mouse
Host	Rat
Isotype	Rat IgG2a
Clone No.	5B11
Isotype Control	Elab Fluor® 647 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832M]
Conjugation	Elab Fluor®647
Conjugation Information	Elab Fluor® 647 is designed to be excited by the Red laser (627-640 nm) and detected using an optical filter centered near 670 nm (e.g., a 660/20 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

Applications — Recommended usage

FCM	Each lot of this antibody is quality control tested by flow cytometric analysis. **The amount of the reagent is suggested to be used 5 µL of antibody per test (million cells in 100 µL staining volume or per 100 µL of whole blood).** Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

Data



Staining of C57BL/6 murine bone marrow cells with FITC Anti-Mouse/Human CD11b Antibody[M1/70] and Elab Fluor® 647 Anti-Mouse CD123 Antibody[5B11] (left) or Elab Fluor® 647 Rat IgG2a, κ Isotype Control (right). Total viable cells were used for analysis.

Preparation & Storage

Storage	Keep as concentrated solution. This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze.
Shipping	Ice bag

Antigen Information

Alternate Names	IL-3 Receptor α chain;IL-3Rα
Uniprot ID	Q8CII2
Gene ID	16188

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Background

CD123 is a 70 kD α chain subunit of the IL-3 receptor (IL-3R α). It is a member of the immunoglobulin superfamily that is expressed on hematopoietic progenitors, basophils, mast cells, and megakaryocytes. This transmembrane glycoprotein can bind IL-3 with low affinity but cannot transduce signals without association with additional protein partners. CD123 can complex with either the common β chain (CDw131) or the IL-3R β chain (AIC2A) to form high-affinity heterodimeric IL-3 receptors. CDw131 can complex with the α subunits of the mouse IL-3R, IL-5R and GM-CSFR to form high-affinity receptors, while the IL-3 R β subunit is specific for IL-3 but binds with low affinity. IL-3 binding to the receptor complex can induce proliferation and differentiation of hematopoietic cells. The 5B11 antibody does not block binding of IL-3 to the high affinity IL-3 receptor.

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