

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

Catalog Number: AN00962M

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

Description

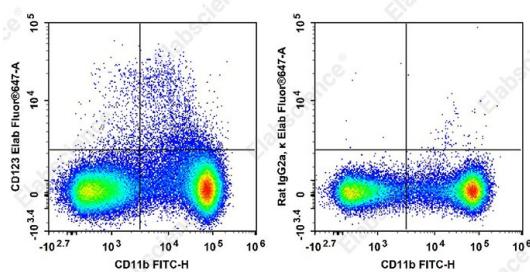
Reactivity	Mouse
Host	Rat
Isotype	Rat IgG2a
Clone No.	5B11
Isotype Control	Elab Fluor® 647 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832M]
Conjugation	Elab Fluor® 647
Conjugation Information	Elab Fluor® 647 is designed to be excited by the Red laser (627-640 nm) and detected using an optical 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.
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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 protect from prolonged exposure to light and do not freeze.
Shipping	Ice bag

Antigen Information

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

For Research Use Only

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Rev. V1.3

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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