

Elab Fluor® Violet 450 Anti-Mouse CD123 Antibody[5B11]

Catalog Number: AN00962Q

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

Description

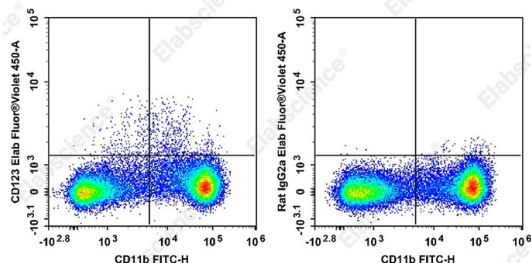
| | |
|--------------------------------|--|
| Reactivity | Mouse |
| Host | Rat |
| Isotype | Rat IgG2a |
| Clone No. | 5B11 |
| Isotype Control | Elab Fluor® Violet 450 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832Q] |
| Conjugation | Elab Fluor® Violet 450 |
| Conjugation Information | Elab Fluor® Violet 450 is designed to be excited by the violet laser (405 nm) and detected using an optical filter centered near 450 nm (e.g., a 450/45 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® Violet 450 Anti-Mouse CD123 Antibody[5B11] (left) or Elab

Fluor® Violet 450 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 24 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 |

For Research Use Only

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.