A Reliable Research Partner in Life Science and Medicine

Elab Fluor® 700 Anti-Mouse CD122/IL-2RB Antibody[5H4]

Catalog Number: E-AB-F1029M1

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

Description

Reactivity Mouse Host Rat

lsotype Rat lgG2a, κ

Clone No. 5H4

Isotype Control Elab Fluor® 700 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832M1]

Conjugation Elab Fluor® 700

Conjugation Information Elab Fluor[®] 700 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 719 nm (e.g., a 725/40 nm bandpass filter).

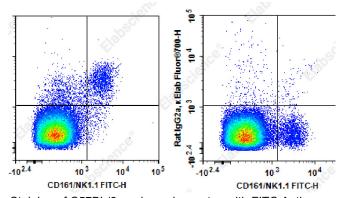
Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

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 μ L of antibody per test (million cells in 100 μ L staining volume or per 100 μ L 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 splenocytes with FITC Anti-

Mouse CD161/NK1.1 Antibody[PK136] and Elab Fluor[®] 700 Anti-Mouse CD122/IL-2RB Antibody[5H4](left) or Elab Fluor

 $^{\circledR}$ 700 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 $^{\circ}\text{C}$ for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names IL-2R subunit beta; IL-2 receptor subunit beta; IL-2 receptor subunit

beta;IL-2RB;II2rb;Interleukin-2 receptor subunit beta;p70-75

Uniprot ID P16297

For Research Use Only

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Gene ID Background 16185

CD122 is a 70-75 kD IL-2 receptor β chain also known as IL-2R β , which is also shared by the IL-15 receptor. It is constitutively expressed by NK cells and at lower levels by T cells, B cells, monocytes, and macrophages. The IL-2R β chain can combine with either the common γ subunit (γ c, CD132) alone or with the γ c subunit and the IL-2R β subunit (CD25) to generate intermediate or high affinity IL-2 receptor complexes, respectively. CD122 expression levels can be upregulated by activation. The 5H4 antibody does not block IL-2 binding to the IL-2 receptor. CD122 is expressed on murine, but not human, CD8+ Tregs involved in the maintenance of T cell homeostasis.