

## Elab Fluor® Violet 450 Anti-Human CD127/IL-7RA Antibody[A019D5]

Catalog Number: E-AB-F1152Q

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

### Description

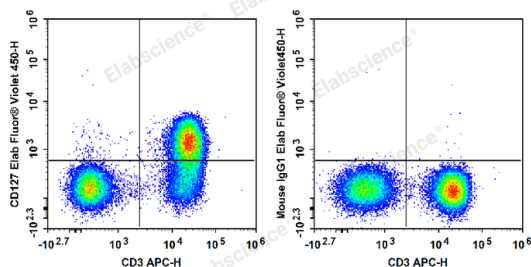
Reactivity	Human
Host	Mouse
Isotype	Mouse IgG1, κ
Clone No.	A019D5
Isotype Control	Elab Fluor® Violet 450 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792Q]
Conjugation	Elab Fluor® Violet 450
Conjugation Information	Elab Fluor® Violet 450 is designed to be excited by the violet laser (405 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 and 1% protein protectant.

### Applications

### Recommended usage

FCM	Each lot of this antibody is quality control tested by flow cytometric analysis. <b>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).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
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### Data



Human peripheral blood lymphocytes are stained with APC

Anti-Human CD3 Antibody and Elab Fluor® Violet 450 Anti-Human CD127/IL-7RA Antibody (Left). Lymphocytes are stained with APC Anti-Human CD3 Antibody and Elab Fluor

® Violet 450 Mouse IgG1, κ Isotype Control (Right).

### 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	CD127;CDw127;IL-7RA;IL-7Rα;Interleukin-7 receptor subunit alpha
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### For Research Use Only

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Rev. V1.5

**Uniprot ID**

P16871

**Gene ID**

3575

**Background**

CD127 is a 60-90 kD type I transmembrane glycoprotein also known as IL-7 receptor  $\alpha$  chain or IL-7R $\alpha$ . It forms a heterodimer with the common  $\gamma$  chain ( $\gamma$ c or CD132) which is shared with the receptors for IL-2, IL-4, IL-9, IL-13, IL-15, and IL-21. CD127 is expressed on immature B cells through early pre-B stage cells, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. CD127 has been reported to be a useful marker for identifying memory and effector T cells. Studies have shown that CD127 expression is down-modulated on Treg cells. It can be used as a marker for differentiation of Treg and conventional T cells. The ligation of IL-7 with its receptor is important for stimulation of mature and immature T cells as well as immature B cell proliferation and development.

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