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# Elab Bright™ Violet 421 Anti-Mouse CD127/IL-7RA Antibody[A7R34]

Catalog Number: E-AB-F1023Q2

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

### Description

Reactivity Mouse Host Rat

Isotype Rat IgG2a, ĸ A7R34 Clone No.

Elab Bright™ Violet 421 Rat IgG2a, κ Isotype Control[R35-95] [Product AN00822Q2] Isotype Control

Elab Bright™Violet 421 Conjugation

**Conjugation Information** Elab Bright<sup>TM</sup> Violet 421 is designed to be excited by the violet laser (405 nm) and

detected using an optical filter centered near 421 nm (e.g., a 450/50 nm bandpass filter).

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

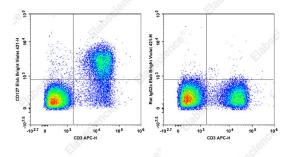
#### **Applications** Recommended usage

**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 splenocytes cells with APC Anti-

Mouse CD3 Antibody and Elab Bright<sup>TM</sup> Violet 421 Anti-Mouse CD127 Antibody[A7R34] (left) or Elab Bright<sup>TM</sup> Violet 421 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** CD127;IL-7 receptor subunit alpha;IL-7R subunit alpha;IL-7R-alpha;IL-7RA;II7r;

Interleukin-7 receptor subunit alpha

**Uniprot ID** P16872

## For Research Use Only

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### Elabscience Bionovation Inc.



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Gene ID Background 16197

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, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. CD127 has been reported to be an useful marker for identifying memory and effector 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 cells proliferation and development.