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# Biotin Anti-Human CD127/IL-7RA Antibody[A019D5]

Catalog Number: E-AB-F1152B

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 Biotin Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09793B]

Conjugation Biotin

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

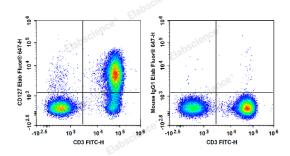
### Applications Recommended usage

**FCM** Each lot of this antibody is quality control tested by flow cytometric analysis. For flow

cytometric staining, the suggested use of this reagent is  $\leq$  1.0  $\mu$ g per 10<sup>6</sup> cells in 100  $\mu$ L volume or 100  $\mu$ L of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

#### Data



Human peripheral blood lymphocytes are stained with FITC Anti-Human CD3 Antibody and Biotin Anti-Human CD127/IL-

7RA Antibody followed by Streptavidin-Elab Fluor<sup>®</sup> 647 (Left). Lymphocytes are stained with FITC Anti-Human CD3 Antibody and Biotin Mouse Rat IgG1, κ Isotype Control

followed by with Streptavidin-Elab Fluor® 647 (Right).

## **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Do not freeze.

Shipping Ice bag

# **Antigen Information**

Alternate Names CD127;CDw127;IL-7RA;IL-7Rα;Interleukin-7 receptor subunit alpha

 Uniprot ID
 P16871

 Gene ID
 3575

# For Research Use Only

#### **Elabscience Bionovation Inc.**



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# **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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