abcam

ab325102

# Alexa Fluor® 647 Anti-CD127 antibody [EPR26371-57]

Recombinant | RabMAb

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Conjugation** | Alexa Fluor® 647 |
| **Excitation/Emission** | Ex: 650nm, Em: 665nm |
| **Storage buffer** | pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Clone number** | EPR26371-57 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 0.5 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## Flow Cyt

**Tested**

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/500 |
| **Notes** | - |

## IHC-Fr

**Not recommended**

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | - |
| **Notes** | - |

## Flow Cyt (Intra)

**Expected**

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

# Target data

See full target information Il7r

| | |
|---|---|
| **Function** | Receptor for interleukin-7. Also acts as a receptor for thymic stromal lymphopoietin (TSLP). |

# Storage

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|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage duration** | 1-2 weeks |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | -20°C |

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|---|---|
| **Aliquoting information** | Upon delivery aliquot |
| **Storage information** | Avoid freeze / thaw cycle, Store in the dark |

## Notes

**Patented technology**
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

**What are the advantages of a recombinant monoclonal antibody?**
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

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## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

| | |
|---|---|
| **Activity summary** | CD127 also known as IL-7R alpha or IL-7R? is a protein found on the surface of cells involved in key immune functions. The CD127 protein has an approximate mass of 55-60 kDa. It is a component of the interleukin-7 receptor which also includes the common gamma chain. You can find CD127 expressed on various immune cells like T cells B cells and dendritic cells. As a marker CD127 is an important indicator of T cell maturity and function. Researchers often target CD127 in studies using antibodies in assay formats like ELISA to measure its expression level and function. |
| **Biological function summary** | CD127 plays an important role in regulating lymphocyte development and survival. It is part of the IL-7R complex partnering with IL-7 for signal transduction that promotes cell proliferation and survival. This interaction is essential for the development and homeostasis of T cells and B cells. In the absence of proper |

| | |
|---|---|
| | CD127 signaling lymphocytes may suffer from poor survival impacting overall immune competence. The IL-7-CD127 interaction informs researchers about mechanisms of immune modulation and resilience. |
| **Pathways** | CD127 participates in the JAK/STAT signaling pathway which is pivotal for transmitting information from extracellular signals to the cell nucleus influencing gene expression. This pathway plays a vital role in immune cell response. When IL-7 binds to the IL-7R complex on CD127 it initiates a cascade that involves proteins like JAK1 and STAT5. These proteins mediate responses necessary for cell proliferation and differentiation within immune system networks. |
| **Associated diseases and disorders** | CD127 has implications in conditions like severe combined immunodeficiency (SCID) and autoimmune diseases. In SCID mutations or defects in CD127 cause impaired T cell development leading to compromised immune function. Additionally CD127 dysregulation can contribute to autoimmune disorders by affecting T regulatory cells creating an imbalance in immune response. Ocrevus a monoclonal antibody therapy used for multiple sclerosis indirectly relates to CD127 by targeting the B cells which rely on IL-7R signaling mechanisms for survival and function. Researchers continue to investigate CD127 to better understand its role in immune-related diseases. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

We do not recommend this combination. It is not covered by our product promise.

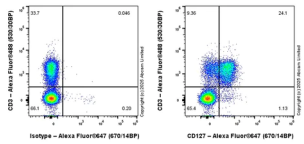
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We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

## 3 product images

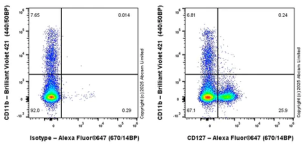


### Flow Cytometry - Alexa Fluor® 647 Anti-CD127 antibody [EPR26371-57] (ab325102)

CD127 Flow Cytometry staining of Mouse spleen cells using rabbit Anti-CD127 antibody

Flow cytometric analysis of Mouse spleen cells labelling CD127 with ab325102 at 1/500 dilution (0.1ug) / Right compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Alexa Fluor® 647) (ab199093) / Left isotype control.

Gated on viable cells.
Cells were co-stained with anti-mouse CD3 conjugated to Alexa Fluor®488.

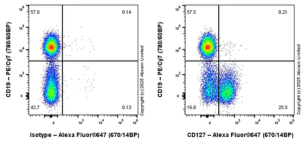


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Gated on viable cells.
Cells were co-stained with anti-mouse CD11b conjugated to BV421.



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CD127 Flow Cytometry staining of Mouse spleen cells using rabbit Anti-CD127 antibody

Flow cytometric analysis of Mouse spleen cells labelling CD127 with ab325102 at 1/500 dilution (0.1ug) / Right compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Alexa Fluor® 647) (ab199093) / Left isotype control.

Gated on viable cells.
Cells were co-stained with anti-mouse CD19 conjugated to PE/Cy7.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.