

# CD127 Monoclonal Antibody (A7R34), PE-Cyanine5, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A7R34
Conjugate	PE-Cyanine5
Excitation/Emission Max	568/666 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_468793

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	41 Publications

## Product Specific Information

**Description:** The A7R34 monoclonal antibody reacts with mouse CD127, the high affinity alpha subunit of the mouse IL-7 receptor. IL-7 receptor alpha chain is expressed by immature B cells in the bone marrow, double-negative (CD4-CD8-), single-positive (CD4+ and CD8+), but not double-positive (CD4+CD8+) thymocytes. In the periphery, mature T cells express CD127 at low level. A7R34 inhibits binding of IL-7 to its receptor and has been used in in vivo and in vitro studies to elucidate the role of IL-7 in T and B cell development and activation. Binding of A7R34 blocks the binding of SB/199, another antibody which recognizes mouse CD127.

**Applications Reported:** The A7R34 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The A7R34 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

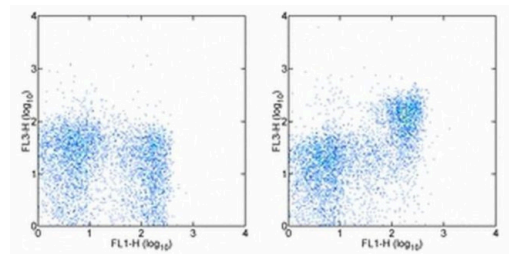
**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

**Product Images For CD127 Monoclonal Antibody (A7R34), PE-Cyanine5, eBioscience™**



**CD127 Antibody (15-1271-82) in Flow**  
Staining of C57Bl/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.25  $\mu$ g of Rat IgG2a Isotype Control PE-Cyanine5 (Product # 15-4321-80) (left) or 0.25  $\mu$ g of Anti-Mouse CD127 PE-Cyanine5 (right). Total viable cells were used for analysis.

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Immunohistochemistry (Frozen) (1)

<p>The American journal of pathology</p> <p><b>Foxp3-expressing CD103+ regulatory T cells accumulate in dendritic cell aggregates of the colonic mucosa in murine transfer colitis.</b></p> <p>Authors: Leithäuser F,Meinhardt-Krajina T,Fink K,Wotschke B,Möller P,Reimann J</p>	<p>Year 2006</p>
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Immunocytochemistry (1)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p><b>LTbetaR signaling induces cytokine expression and up-regulates lymphangiogenic factors in lymph node anlagen.</b></p> <p>Authors: Vondenhoff MF,Greuter M,Goverse G,Elewaut D,Dewint P,Ware CF,Hoorweg K,Kraal G,Mebius RE</p>	<p>Year 2009</p>
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Flow Cytometry (41)

<p>Advanced science (Weinheim, Baden-Wurttemberg, Germany)</p> <p><b>Group 2 Innate Lymphoid Cells Protect Mice from Abdominal Aortic Aneurysm Formation via IL5 and Eosinophils.</b></p> <p>"Published figure using CD127 monoclonal antibody (Product # 15-1271-82) in Flow Cytometry"</p> <p>Authors: Zhang Y,Liu T,Deng Z,Fang W,Zhang X,Zhang S,Wang M,Luo S,Meng Z,Liu J,Sukhova GK,Li D,McKenzie ANJ,Libby P,Shi GP,Guo J</p>	<p>Year 2023</p>
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<p>Cell reports</p> <p><b>PI3K coordinates transcriptional, chromatin, and metabolic changes to promote effector CD8<sup>+</sup> T cells at the expense of central memory.</b></p> <p>"Published figure using CD127 monoclonal antibody (Product # 15-1271-82) in Flow Cytometry"</p> <p>Authors: Cannons JL,Villarino AV,Kapnick SM,Preite S,Shih HY,Gomez-Rodriguez J,Kaul Z,Shibata H,Reilley JM,Huang B,Handon R,McBain IT,Gossa S,Wu T,Su HC,McGavern DB,O'Shea JJ,McGuire PJ,Uzel G,Schwartzberg PL</p>	<p>Year 2021</p>
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