CD127 Monoclonal Antibody (A7R34), eFluor™ 660, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A7R34
Conjugate	eFluor™ 660
Excitation/Emission Max	651/668 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_11219081

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	19 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.

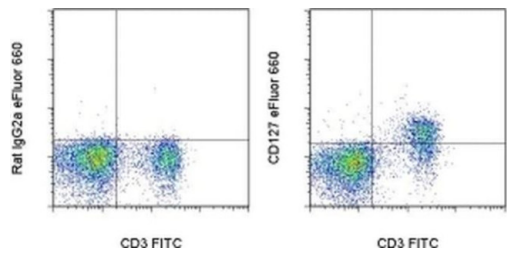Applications Reported: This A7R34 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This A7R34 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

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Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 μm post-manufacturing filtered.

Product Images For CD127 Monoclonal Antibody (A7R34), eFluor™ 660, eBioscience™

CD127 Antibody (50-1271-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.5 μg of Rat IgG2a K Isotype Control eFluor® 660 (Product # 50-4321-82) (left) or 0.5 μg of Anti-Mouse CD127 eFluor® 660 (right). Total viable cells were used for analysis.

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Immunohistochemistry (Frozen) (1)

The American journal of pathology

Foxp3-expressing CD103+ regulatory T cells accumulate in dendritic cell aggregates of the colonic mucosa in murine transfer colitis.

Authors: Leithäuser F,Meinhardt-Krajina T,Fink K,Wotschke B,Möller P,Reimann J

Year
2006

Immunocytochemistry (1)

Journal of immunology (Baltimore, Md. : 1950)

LTbetaR signaling induces cytokine expression and up-regulates lymphangiogenic factors in lymph node anlagen.

Authors: Vondenhoff MF,Greuter M,Goverse G,Elewaut D,Dewint P,Ware CF,Hoorweg K,Kraal G,Mebius RE

Year
2009

Flow Cytometry (19)

Advanced science (Weinheim, Baden-Wurttemberg, Germany)

Group 2 Innate Lymphoid Cells Protect Mice from Abdominal Aortic Aneurysm Formation via IL5 and Eosinophils.

"Published figure using CD127 monoclonal antibody (Product # 50-1271-82) in Flow Cytometry"

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

Year
2023

Cell reports

PI3K coordinates transcriptional, chromatin, and metabolic changes to promote effector CD8^{+} T cells at the expense of central memory.

"Published figure using CD127 monoclonal antibody (Product # 50-1271-82) in Flow Cytometry"

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

Year
2021

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