

# CD127 Monoclonal Antibody (A7R34), Biotin, 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), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A7R34
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466588

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	55 Publications

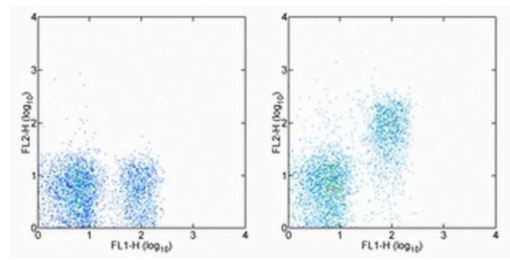
## Product Specific Information

**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.

**Filtration:** 0.2 µm post-manufacturing filtered.



**CD127 Antibody (13-1271-82) in Flow**  
Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.25 µg of Rat IgG2a K Isotype Control Biotin (Product # 13-4321-82) (left) or 0.25 µg of Anti-Mouse CD127 Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

📖 60 References

Immunohistochemistry (2)

<b>Cell</b> <b>Regulatory Innate Lymphoid Cells Control Innate Intestinal Inflammation.</b> "13-1271 was used in Immunohistochemistry-immunofluorescence to identify a regulatory subpopulation of innate lymphoid cells that exists in the gut, and harbour a unique gene identity." Authors: Wang S,Xia P,Chen Y,Qu Y,Xiong Z,Ye B,Du Y,Tian Y,Yin Z,Xu Z,Fan Z	<b>Year</b> 2017  <b>Species</b> Mouse
--	--

<b>Journal of immunology (Baltimore, Md. : 1950)</b> <b>Peyer's patch inducer cells play a leading role in the formation of B and T cell zone architecture.</b> "13-1271 was used in Immunohistochemistry to analyse evidence that CD3(-)IL-7R(+) PP inducer cells are involved in the formation of B and T cell zones in neonatal mice." Authors: Nakagawa R,Togawa A,Nagasawa T,Nishikawa S	<b>Year</b> 2013  <b>Species</b> Mouse
--	--

Immunohistochemistry (Frozen) (1)

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

Immunocytochemistry (2)

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

[More applications with references on thermofisher.com](#)

Flow (55)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.