

# CD127 Monoclonal Antibody (A7R34), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	A7R34
Conjugate	Unconjugated
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
RRID	AB_467457

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.5 µg/test	61 Publications
Immunofluorescence (IF)	-	1:100	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	✓	Assay-Dependent	2 Publications
In vitro Assay (IV)	-		1 Publication
Functional Assay (FN)	✓	Assay-Dependent	
Immunoprecipitation (IP)	✓	Assay-Dependent	
Neutralization (Neu)	✓	Assay-Dependent	

## 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, immunoprecipitation, and immunohistology staining of frozen tissue sections. It has also been reported in blocking of IL-7 binding in functional studies. (Please use Functional Grade purified A7R34, cat. 16-1271, in functional assays.).

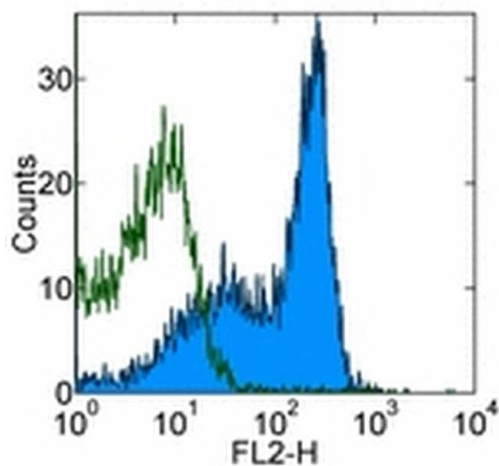
Applications Tested: The A7R34 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



### CD127 Antibody (14-1271-82) in Flow

Staining of C57BL/6 splenocytes with 0.5 µg of Rat IgG2a K Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.5 µg of Anti-Mouse CD127 Purified (filled histogram) followed by Anti-Rat IgG Biotin (Product # 13-4813-85) and Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## 68 References

### Flow Cytometry (61)

#### Epigenetics and chromatin

##### Establishment of regulatory elements during erythro-megakaryopoiesis identifies hematopoietic lineage-commitment points.

Authors: Heuston EF, Keller CA, Lichtenberg J, Giardine B, Anderson SM, Hardison RC, Bodine DM

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2018

#### International journal of molecular medicine

##### The interplay of BMP4 and IL7 regulates the apoptosis of intestinal intraepithelial lymphocytes under conditions of ischemia and reperfusion.

"Published figure using CD127 monoclonal antibody (Product # 14-1271-82) in Flow Cytometry"

Authors: Luo B, Chen K, Feng Q, Xiao W, Ma D, Yang H, Zhang C

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

[View more Flow references on thermofisher.com](#)

### Immunofluorescence (4)

#### Nature communications

##### Epidermal Notch1 recruits ROR(+) group 3 innate lymphoid cells to orchestrate normal skin repair.

"14-1271 was used in Flow cytometry/Cell sorting to investigate whether Notch directs non-cell-autonomous signalling in adult tissues, showing that it recruits ROR(+) group 3 innate lymphoid cells to orchestrate normal skin repair."

Authors: Li Z, Hodgkinson T, Gothard EJ, Boroumand S, Lamb R, Cummins I, Narang P, Sawtell A, Coles J, Leonov G, Reboldi A, Buckley CD, Cupedo T, Siebel C, Bayat A, Coles MC, Amblar CA

**Species**  
Mouse

**Dilution**  
1:100

**Year**  
2016

#### The Journal of experimental medicine

##### Innate lymphoid cells sustain colon cancer through production of interleukin-22 in a mouse model.

"14-1271 was used in Flow cytometry/Cell sorting to describe a new role of IL-22 in the colon as a non-redundant mediator of the inflammatory cascade necessary for the continuation of colorectal cancer."

Authors: Kirchberger S, Royston DJ, Boulard O, Thornton E, Franchini F, Szabady RL, Harrison O, Powrie F

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2013

[View more IF references on thermofisher.com](#)

### More applications with references on thermofisher.com

IHC (F) (2)

IV (1)

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