

# CD127 Monoclonal Antibody (A7R34), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A7R34
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744786

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	5 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<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.

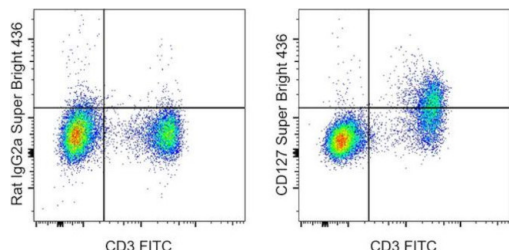
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD127 Monoclonal Antibody (A7R34), Super Bright™ 436, eBioscience™



### CD127 Antibody (62-1271-82) in Flow

Swiss Webster mouse splenocytes were stained with CD3e Monoclonal Antibody, FITC (Product # 11-0031-82) and 1.0 µg of Rat IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4321-82) (left) or 1.0 µg of CD127 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

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

## 5 References

### Flow Cytometry (5)

#### Cell reports

#### PI3K coordinates transcriptional, chromatin, and metabolic changes to promote effector CD8<sup>+</sup> T cells at the expense of central memory.

"Published figure using CD127 monoclonal antibody (Product # 62-1271-82) in Flow Cytometry"

Authors: Cannons JL, Villarino AV, Kapnick SM, Preite S, Shih HY, Gomez-Rodriguez J, Kaul Z, Shibata H, Reilly 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

#### JCI insight

#### Hedgehog interacting protein-expressing lung fibroblasts suppress lymphocytic inflammation in mice.

"Published figure using CD127 monoclonal antibody (Product # 62-1271-82) in Flow Cytometry"

Authors: Yun JH, Lee C, Liu T, Liu S, Kim EY, Xu S, Curtis JL, Pinello L, Bowler RP, Silverman EK, Hersh CP, Zhou X

Year  
2021

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

## More applications with references on thermofisher.com

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