

CD127 Monoclonal Antibody (A7R34), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A7R34
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469649

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	33 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: This A7R34 antibody has been tested by flow cytometric analysis of mouse thymocytes and 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

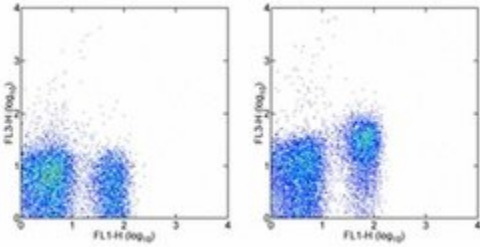
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ 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: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD127 Monoclonal Antibody (A7R34), PE-Cyanine7, eBioscience™



CD127 Antibody (25-1271-82) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 1.0 μ g of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 1.0 μ g of Anti-Mouse CD127 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

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

35 References

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

Species
Not Applicable

Dilution
Not Cited

Year
2006

Immunofluorescence (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

Species
Not Applicable

Dilution
Not Cited

Year
2009

Flow Cytometry (33)

Journal of virology

Route of adenovirus-based HIV-1 vaccine delivery impacts the phenotype and trafficking of vaccine-elicited CD8+ T lymphocytes.

"25-1271 was used in Flow cytometry/Cell sorting to indicate that the anatomic microenvironment of antigen expression critically impacts the phenotype and trafficking of antigen-specific CD8(+) T lymphocytes."

Authors: Kaufman DR,Bivas-Benita M,Simmons NL,Miller D,Barouch DH

Species
Mouse

Dilution
Not Cited

Year
2010

International journal of molecular sciences

Selective Expression of Flt3 within the Mouse Hematopoietic Stem Cell Compartment.

"25-1271 was used in Flow cytometry/Cell sorting to investigate the functional heterogeneity of hematopoietic stem and progenitor cell populations."

Authors: Mooney CJ,Cunningham A,Tsapogas P,Toellner KM,Brown G

Species
Mouse

Dilution
Not Cited

Year
2017

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

More applications with references on thermofisher.com

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