

CD25 Monoclonal Antibody (PC61.5), PE-Cyanine5, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgG1, lambda
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PC61.5
Conjugate	PE-Cyanine5
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_468733

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	46 Publications
Functional Assay (FN)	-	2 Publications

Product Specific Information

Description: The PC61.5 antibody reacts with mouse CD25, the 55 kDa interleukin-2 receptor alpha chain (IL-2R alpha). CD25 is expressed by early progenitors of the T and B lineage as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 only with low affinity. However, CD25 associates with CD122 (IL-2 receptor beta chain) and CD132 (common gamma chain) to form the high affinity IL-2 receptor. Binding of IL-2 to both the high and low affinity classes of IL-2 receptor is inhibited by the PC61.5 antibody. CD25 plays a role in lymphocyte differentiation and activation/proliferation.

Applications Reported: The PC61.5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The PC61.5 antibody has been tested by flow cytometric analysis of mouse splenocytes and Con A-stimulated splenocyte culture. This can be used at less than or equal to 0.125 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.

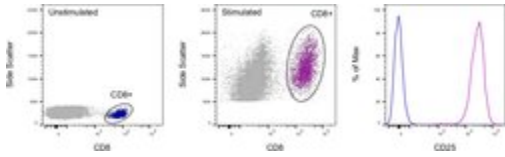
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific

performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data



CD25 Antibody (15-0251-82)

Staining of stimulated mouse splenocytes. As expected based on known expression patterns, CD25 clone PC61.5 staining is significantly increased in CD8+ T cells after stimulation. Details: Mouse splenocytes were unstimulated (blue histogram) or stimulated for 2 days with CD3 (clone 145-2C11), CD28 (clone 37.51), and Mouse IL-2 Recombinant Protein (purple histogram). After stimulation, cells were stained with CD8 (clone 53-6.7) and CD25 (clone PC61.5). Cells in the CD8+ gate were used for analysis. Cell treatment validation info.

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

48 References

Flow Cytometry (46)

Inflammation and regeneration

Immunosuppressive effect of mesenchymal stem cell-derived exosomes on a concanavalin A-induced liver injury model.

"Published figure using CD25 monoclonal antibody (Product # 15-0251-82) in Flow Cytometry"

Authors: Tamura R,Uemoto S,Tabata Y

Species
Not Applicable

Dilution
Not Cited

Year
2020

Frontiers in immunology

Role of Nuclear Factor (Erythroid-Derived 2)-Like 2 Signaling for Effects of Fumaric Acid Esters on Dendritic Cells.

"15-0251 was used in Flow cytometry/Cell sorting to reveal, using treatment with fumaric acid esters as a model, the effects of Nrf2 activation and signalling on dendritic cells."

Authors: Hammer A,Waschbisch A,Knippertz I,Zinser E,Berg J,Jörg S,Kuhbandner K,David C,Pi J,Bayas A,Lee DH, Haghikia A,Gold R,Steinkasserer A,Linker RA

Species
Mouse

Dilution
Not Cited

Year
2019

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

Functional Assay (2)

Cancer research

Combination of tumor site-located CTL-associated antigen-4 blockade and systemic regulatory T-cell depletion induces tumor-destructive immune responses.

Authors: Tuve S,Chen BM,Liu Y,Cheng TL,Touré P,Sow PS,Feng Q,Kiviat N,Strauss R,Ni S,Li ZY,Roffler SR,Lieber A

Species
Not Applicable

Dilution
Not Cited

Year
2007

Cancer research

Listeria monocytogenes promotes tumor growth via tumor cell toll-like receptor 2 signaling.

Authors: Huang B,Zhao J,Shen S,Li H,He KL,Shen GX,Mayer L,Unkeless J,Li D,Yuan Y,Zhang GM,Xiong H,Feng ZH

Species
Not Applicable

Dilution
Not Cited

Year
2007

More applications with references on thermofisher.com

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