

CD25 Monoclonal Antibody (PC61.5), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rat / IgG1, lambda
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PC61.5
Conjugate	APC
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_469366

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	160 Publications
Functional Assay (FN)	-	3 Publications
Immunocytochemistry (ICC)	-	1 Publication

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.

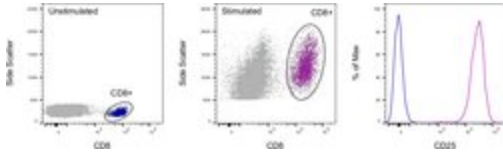
Applications Reported: The PC61.5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The PC61.5 antibody has been tested by flow cytometric analysis of mouse splenocytes. 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.

Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

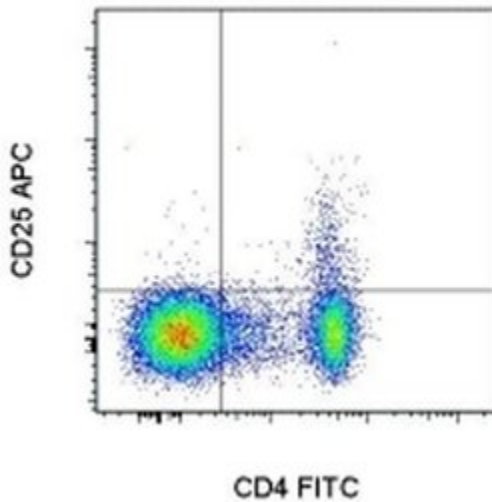
✓ Advanced Verification Data



CD25 Antibody (17-0251-82)

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.

Product Images For CD25 Monoclonal Antibody (PC61.5), APC, eBioscience™



CD25 Antibody (17-0251-82) in Flow

Staining of SJL splenocytes with Anti-Mouse CD4 FITC (Product # 11-0042-82) and 0.06 µg of Anti-Mouse CD25 APC. Total viable cells were used for analysis.

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

Flow Cytometry (160)

Oncoimmunology

Compensatory upregulation of PD-1, LAG-3, and CTLA-4 limits the efficacy of single-agent checkpoint blockade in metastatic ovarian cancer.

"Published figure using CD25 monoclonal antibody (Product # 17-0251-82) in Flow Cytometry"

Authors: Huang RY,Francois A,McGray AR,Miliotto A,Odunsi K

Species
Mouse

Dilution
Not Cited

Year
2019

Frontiers in immunology

Interleukin-4 Supports the Suppressive Immune Responses Elicited by Regulatory T Cells.

"17-0251 was used in Flow cytometry/Cell sorting to suggest the essential role of IL-4 in supporting Treg-mediated immune suppression, which may benefit the development of therapeutic strategies for autoimmune diseases."

Authors: Yang WC,Hwang YS,Chen YY,Liu CL,Shen CN,Hong WH,Lo SM,Shen CR

Species
Mouse

Dilution
Not Cited

Year
2019

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

Immunocytochemistry (1)

The Journal of experimental medicine

B cell depletion reduces the development of atherosclerosis in mice.

"17-0251 was used in Flow cytometry/Cell sorting to challenge the current paradigm that B cell activation plays an overall protective role in atherogenesis, and identify new antiatherogenic strategies based on B cell modulation."

Authors: Ait-Oufella H,Herbin O,Bouaziz JD,Binder CJ,Uytenhove C,Laurans L,Taleb S, Van Vré E,Esposito B,Vilar J, Sirvent J, Van Snick J, Tedgui A, Tedder TF, Mallat Z

Species
Mouse

Dilution
Not Cited

Year
2010

Functional Assay (3)

Journal of immunology (Baltimore, Md. : 1950)

Differential geminin requirement for proliferation of thymocytes and mature T cells.

"17-0251 was used in Flow cytometry/Cell sorting to gain insight into the in vivo role of Geminin in progenitor cell division and differentiation."

Authors: Karamitros D,Kotantaki P,Lygerou Z,Veiga-Fernandes H,Pachnis V,Kioussis D,Taraviras S

Species
Mouse

Dilution
Not Cited

Year
2010

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