

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	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
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	160 Publications
Functional Assay (FN)	-	3 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.

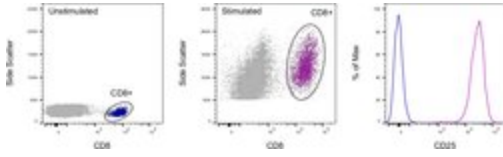
Applications Reported: The PC61.5 antibody has been reported for use in flow cytometric analysis.

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

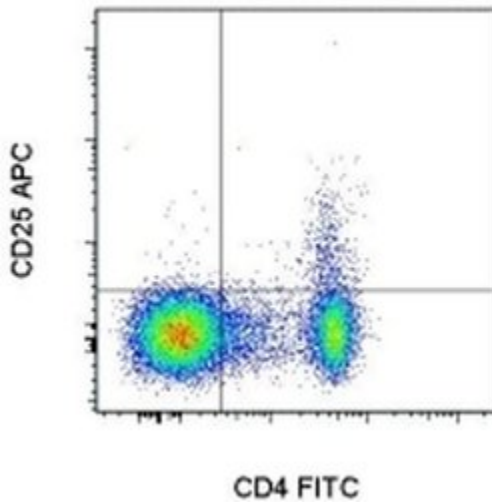
Advanced Verification Data



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.

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, Uyttenhove 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

Flow Cytometry (160)

Chinese medicine

Effects of different principles of Traditional Chinese Medicine treatment on TLR7/NF-B signaling pathway in influenza virus infected mice.

"17-0251 was used in Flow cytometry/Cell sorting to show traditional chinese medicines Guizhi-and-Mahuang decoction and Yinqiao powder can provide anti-influenza functions."

Authors: Fu YJ, Yan YQ, Qin HQ, Wu S, Shi SS, Zheng X, Wang PC, Chen XY, Tang XL, Jiang ZY

Species
Mouse

Dilution
Not Cited

Year
2022

Frontiers in immunology

IDO1 Expression in Ovarian Cancer Induces PD-1 in T Cells via Aryl Hydrocarbon Receptor Activation.

"17-0251-82 was used in Flow Cytometry to enable the design of strategies to target the IDO1 and AHR pathways for enhancing anti-tumor immunity in ovarian cancer."

Authors: Amobi-McCloud A, Muthuswamy R, Battaglia S, Yu H, Liu T, Wang J, Putluri V, Singh PK, Qian F, Huang RY, Putluri N, Tsuji T, Lugade AA, Liu S, Odunsi K

Species
Mouse

Dilution
Not Cited

Year
2021

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

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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More applications with references on thermofisher.com

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