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

Product Details	
Size	50 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
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469365

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	179 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.

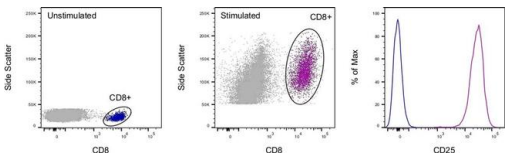
Applications Reported: The PC61.5 antibody has been reported for use in flow cytometric analysis.

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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

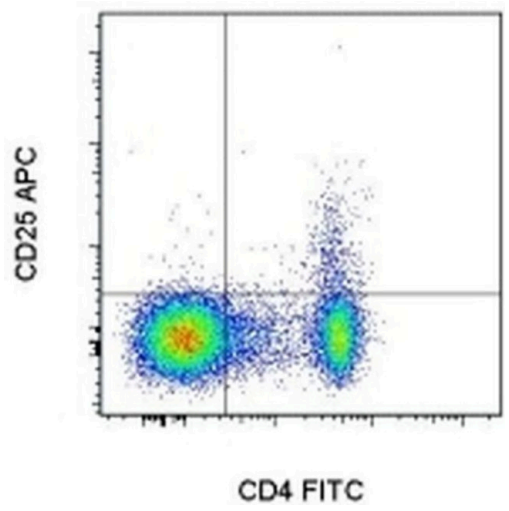
Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD25 Antibody (17-0251-81)
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. {TM}



CD25 Antibody (17-0251-81) 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.

183 References

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

Year
2010

Species
Mouse

Flow Cytometry (179)

NPJ vaccines

Specific targeting of IL-1 activity to CD8^{+} T cells allows for safe use as a vaccine adjuvant.

"17-0251 was used in Flow cytometry/Cell sorting to demonstrate safe inclusion of IL-1 as an adjuvant in vaccination strategies, leading to full protection of mice against a high influenza virus challenge dose by raising potent T cell responses."

Authors: Van Den Eeckhout B,Van Hoecke L,Burg E,Van Lint S,Peelman F,Kley N,Uzé G,Saelens X,Tavernier J,Gerlo S

Year
2023

Species
Mouse

Dilution
1:100

Neurology(R) neuroimmunology & neuroinflammation

CAR-T Cell-Mediated B-Cell Depletion in Central Nervous System Autoimmunity.

"17-0251-82 was used in Flow cytometry/Cell sorting to observe that anti-CD19 CAR-T cells ameliorated experimental autoimmune encephalomyelitis and thoroughly deplete B cells in peripheral tissues and in the CNS."

Authors: Gupta S,Simic M,Sagan SA,Shepherd C,Duecker J,Sobel RA,Dandekar R,Wu GF,Wu W,Pak JE,Hauser SL, Lim W,Wilson MR,Zamvil SS

Year
2023

Species
Mouse

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

Year
2010

Species
Mouse

View more FN references on thermofisher.com

More applications with references on thermofisher.com