

CD25 Monoclonal Antibody (PC61.5), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PC61.5
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_469607

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	142 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: This 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.

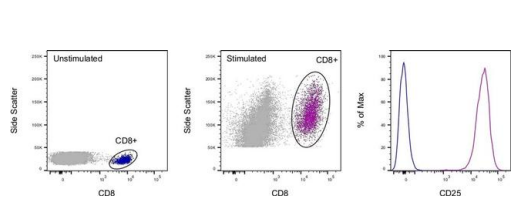
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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.

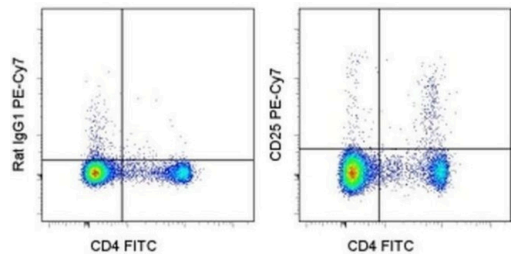
Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD25 Monoclonal Antibody (PC61.5), PE-Cyanine7, eBioscience™



CD25 Antibody (25-0251-81)
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 (25-0251-81) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD4 FITC (Product # 11-0041-82) and 0.06 µg of Rat IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4301-82) (left) or 0.06 µg of Anti-Mouse CD25 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

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Flow Cytometry (142)

Oncoimmunology	Year 2023
A synergistic triad of chemotherapy, immune checkpoint inhibitors, and caloric restriction mimetics eradicates tumors in mice.	Species Mouse
"25-0251-82 was used in Flow Cytometry to point to the possibility of synergistic interactions among distinct classes of anticancer agents."	
Authors: Lévesque S,Le Naour J,Pietrocola F,Paillet J,Kremer M,Castoldi F,Baracco EE,Wang Y,Vacchelli E,Stoll G,Jolly A,De La Grange P,Zitvogel L,Kroemer G,Pol JG	
Nature communications	Year 2023
Aiolos represses CD4⁺ T cell cytotoxic programming via reciprocal regulation of T_{FH} transcription factors and IL-2 sensitivity.	
"Published figure using CD25 monoclonal antibody (Product # 25-0251-82) in Flow Cytometry"	
Authors: Read KA,Jones DM,Pokhrel S,Hales EDS,Varkey A,Tuazon JA,Eisele CD,Abdouni O,Saadey A,Leonard MR,Warren RT,Powell MD,Boss JM,Hemann EA,Yount JS,Xin G,Ghoneim HE,Lio CJ,Freud AG,Collins PL,Oestreich KJ	

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

Functional Assay (2)

Cancer research	Year 2007
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	
Cancer research	Year 2007
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	

More applications with references on thermofisher.com

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