

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	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
Excitation/Emission Max	568/666 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_468733

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	91 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 10<sup>5</sup> to 10<sup>8</sup> 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.

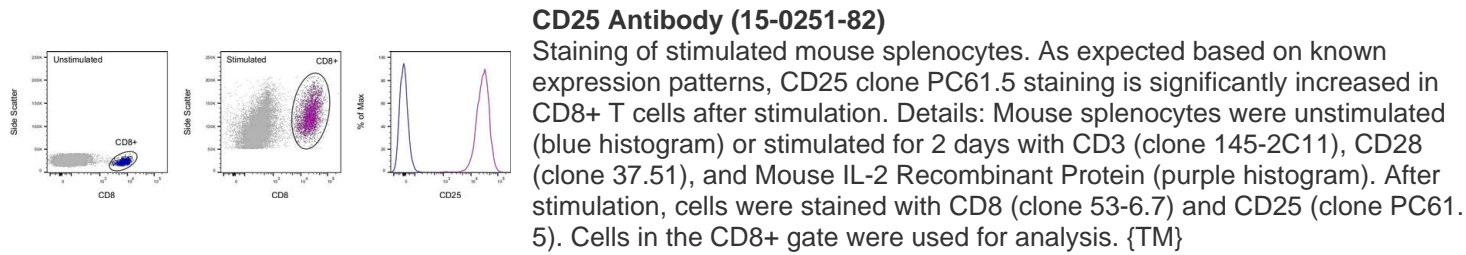
**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding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

**Product Images For CD25 Monoclonal Antibody (PC61.5), PE-Cyanine5, eBioscience™**



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Flow Cytometry (91)

<p>Nature communications</p> <p><b>Aiolos represses CD4<sup>+</sup> T cell cytotoxic programming via reciprocal regulation of T<sub>FH</sub> transcription factors and IL-2 sensitivity.</b></p> <p>"Published figure using CD25 monoclonal antibody (Product # 15-0251-82) in Flow Cytometry"</p> <p>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</p>	<p>Year 2023</p>
<p>Nature communications</p> <p><b>Immunotherapy targeting plasma ASM is protective in a mouse model of Alzheimer's disease.</b></p> <p>"Published figure using CD25 monoclonal antibody (Product # 15-0251-82) in Flow Cytometry"</p> <p>Authors: Choi BJ,Park MH,Park KH,Han WH,Yoon HJ,Jung HY,Hong JY,Chowdhury MR,Kim KY,Lee J,Song IS,Pang M,Choi MK,Gulbins E,Reichel M,Kornhuber J,Hong CW,Kim C,Kim SH,Schuchman EH,Jin HK,Bae JS</p>	<p>Year 2023</p>

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Functional Assay (2)

<p>Cancer research</p> <p><b>Combination of tumor site-located CTL-associated antigen-4 blockade and systemic regulatory T-cell depletion induces tumor-destructive immune responses.</b></p> <p>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</p>	<p>Year 2007</p>
<p>Cancer research</p> <p><b>Listeria monocytogenes promotes tumor growth via tumor cell toll-like receptor 2 signaling.</b></p> <p>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</p>	<p>Year 2007</p>

More applications with references on thermofisher.cn

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