

CD25 Monoclonal Antibody (PC61.5), PerCP-Cyanine5.5, 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), PerCP-Cyanine5.5, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | PC61.5 |
| Conjugate | PerCP-Cyanine5.5 |
| 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_914324 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|-----------------|
| Flow Cytometry (Flow) | 0.25 µg/test | 61 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.

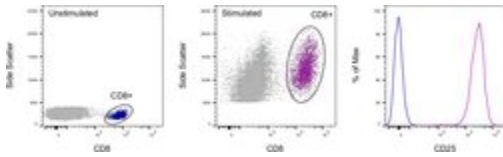
Applications Reported: This PC61.5 antibody has been reported for use in flow cytometric analysis.

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 0.25 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: 488 nm; Emission: 695 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

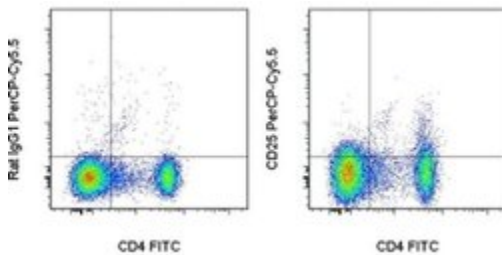
Advanced Verification Data



CD25 Antibody (45-0251-82)

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), PerCP-Cyanine5.5, eBioscience™



CD25 Antibody (45-0251-82) in Flow

Staining of SJL splenocytes with Anti-Mouse CD4 FITC (Product # 11-0042-82) and 0.125 µg of Rat IgG1 K Isotype Control PerCP-Cyanine5-5 (Product # 45-4301-80) (left) or 0.125 µg of Anti-Mouse CD25 PerCP-Cyanine5-5 (right). Cells in the lymphocyte gate were used for analysis.

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Flow Cytometry (61)

Inflammation and regeneration

Immunosuppressive effect of mesenchymal stem cell-derived exosomes on a concanavalin A-induced liver injury model.

"Published figure using CD25 monoclonal antibody (Product # 45-0251-82) in Flow Cytometry"

Authors: Tamura R,Uemoto S,Tabata Y

Species
Not Applicable

Dilution
Not Cited

Year
2020

Journal of clinical and cellular immunology

ER and ER Differentially Regulate NKT and V4⁺ T-cell Activation and T-regulatory Cell Response in Coxsackievirus B3 Infected Mice.

"45-0251 was used in Flow cytometry/Cell sorting to determine the relative role and mechanism of action of estrogen receptor alpha and beta in myocarditis susceptibility."

Authors: Huber S

Species
Mouse

Dilution
Not Cited

Year
2020

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

Functional Assay (2)

Cancer research

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,Kiviati N,Strauss R,Ni S,Li ZY,Roffler SR,Lieber A

Species
Not Applicable

Dilution
Not Cited

Year
2007

Cancer research

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

Species
Not Applicable

Dilution
Not Cited

Year
2007

More applications with references on thermofisher.com

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