

CD25 Monoclonal Antibody (PC61.5), Biotin, 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), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PC61.5
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466400

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	60 Publications
Neutralization (Neu)	-	2 Publications
Functional Assay (FN)	-	4 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

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.

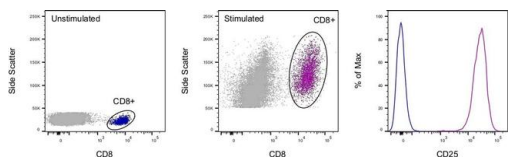
Applications Reported: The PC61.5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The PC61.5 antibody has been tested by flow cytometric analysis of mouse splenocytes and Con A-stimulated 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.

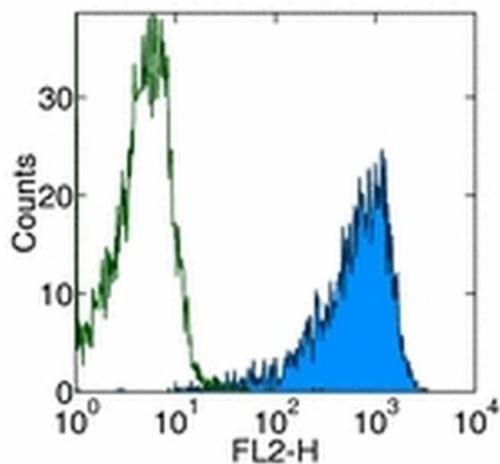
Filtration: 0.2 µm post-manufacturing filtered.

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



CD25 Antibody (13-0251-82)

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. {TM}



CD25 Antibody (13-0251-82) in Flow

Staining of ConA-stimulated mouse splenocytes with Anti-Mouse CD25 PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Western Blot (1)

Cell reports

Mitochondrial Pyruvate Carrier 1 Promotes Peripheral T Cell Homeostasis through Metabolic Regulation of Thymic Development.

"Published figure using CD25 monoclonal antibody (Product # 13-0251-82) in Western Blot"

Authors: Ramstead AG,Wallace JA,Lee SH,Bauer KM,Tang WW,Ekiz HA,Lane TE,Cluntun AA,Bettini ML,Round JL,Rutter J,O'Connell RM

Species
Not Applicable

Dilution
Not Cited

Year
2020

Immunohistochemistry (1)

International journal of molecular sciences

Positive Effects of Oral Antibiotic Administration in Murine Chronic Graft-Versus-Host Disease.

"Published figure using CD25 monoclonal antibody (Product # 13-0251-82) in Immunohistochemistry"

Authors: Sato S,Shimizu E,He J,Ogawa M,Asai K,Yazu H,Rusch R,Yamane M,Yang F,Fukuda S,Kawakami Y,Tsubota K,Ogawa Y

Species
Not Applicable

Dilution
Not Cited

Year
2021

Flow Cytometry (60)

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 # 13-0251-82) in Flow Cytometry"

Authors: Tamura R,Uemoto S,Tabata Y

Species
Not Applicable

Dilution
Not Cited

Year
2022

Journal of hematology & oncology

Cell-permeable transgelin-2 as a potent therapeutic for dendritic cell-based cancer immunotherapy.

"Published figure using CD25 monoclonal antibody (Product # 13-0251-82) in Flow Cytometry"

Authors: Kim HR,Park JS,Park JH,Yasmin F,Kim CH,Oh SK,Chung IJ,Jun CD

Species
Not Applicable

Dilution
Not Cited

Year
2021

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

More applications with references on thermofisher.com

Neu (2) **FN (4)** **Misc (1)**

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