

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse
Host/Isotype	Rat / IgG1, lambda
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PC61.5
Conjugate	PE
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_465607

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	185 Publications
Functional Assay (FN)	-	3 Publications
Miscellaneous PubMed (Misc)	-	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.

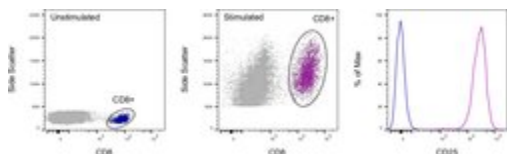
Applications Reported: The PC61.5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The PC61.5 antibody has been tested by flow cytometric analysis of mouse splenocytes 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

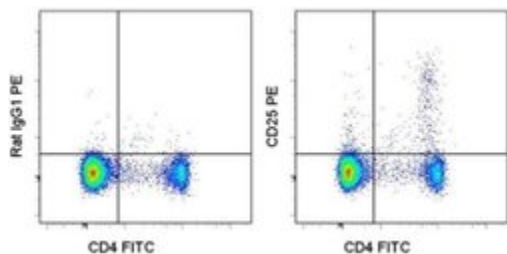
Advanced Verification Data



CD25 Antibody (12-0251-82)

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), PE, eBioscience™



CD25 Antibody (12-0251-82) 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 (Product # 12-4301-82) (left) or 0.06 µg of Anti-Mouse CD25 PE (right). Total viable cells were used for analysis.

Western Blot (1)

Molecular and cellular biology

Increased p300 expression inhibits glucocorticoid receptor-T-cell receptor antagonism but does not affect thymocyte positive selection.

"12-0251 was used in Western Blotting to determine the effects of increased p300 expression on GR-TCR crosstalk between thymocytes."

Authors: Yu CT,Feng MH,Shih HM,Lai MZ

Species
Mouse

Dilution
Not Cited

Year
2002

Immunocytochemistry (1)

Journal of immunology (Baltimore, Md. : 1950)

Programmed death-1 pathway in host tissues ameliorates Th17/Th1-mediated experimental chronic graft-versus-host disease.

"12-0251 was used in Flow cytometry/Cell sorting to clarify that programmed death-ligand 1 deficiency in host tissues, not hematopoietic cells, is associated with exacerbated chronic graft-versus-host disease."

Authors: Fujiwara H,Maeda Y,Kobayashi K,Nishimori H,Matsuoka K,Fujii N,Kondo E,Tanaka T,Chen L,Azuma M,Yagita H,Tanimoto M

Species
Mouse

Dilution
Not Cited

Year
2014

Flow Cytometry (185)

FEBS open bio

Withdrawn: Parecoxib inhibits inflammatory responses in a mouse model of sepsis.

"12-0251 was used in Flow cytometry/Cell sorting to suggest that Parecoxib inhibits the inflammatory response and has protective effects against sepsis in mice, and may have potential as a novel therapeutic method for treating sepsis."

Authors: No authors listed

Species
Mouse

Dilution
Not Cited

Year
2022

Science advances

Aging-associated deficit in CCR7 is linked to worsened lymphatic function, cognition, neuroinflammation, and -amyloid pathology.

"12-0251 was used in Flow cytometry/Cell sorting to test a hypothesis that an age-related reduction in C-C chemokine receptor type 7 (CCR7)-dependent egress of immune cells through the lymphatic vasculature mediates some aspects of brain aging and potentially exacerbates cognitive decline and Alzheimer's disease-like brain -amyloid (A) pathology."

Authors: Da Mesquita S,Herz J,Wall M,Dykstra T,de Lima KA,Norris GT,Dabhi N,Kennedy T,Baker W,Kipnis J

Species
Mouse

Dilution
1:200

Year
2021

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More applications with references on thermofisher.com

FN (3)

Misc (3)

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