

# CD25 Monoclonal Antibody (PC61.5), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG1, lambda
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PC61.5
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_891422

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	82 Publications
Neutralization (Neu)	-	2 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 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.

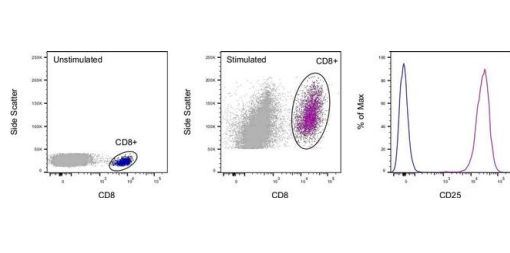
Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP

mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

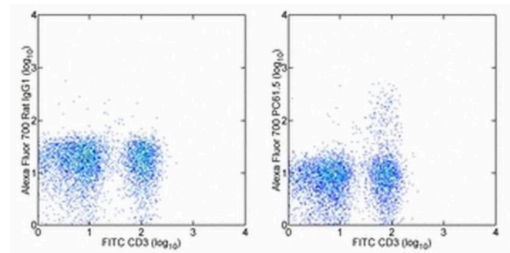
Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD25 Monoclonal Antibody (PC61.5), Alexa Fluor™ 700, eBioscience™**



**CD25 Antibody (56-0251-82)**  
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 (56-0251-82) in Flow**  
Staining of BALB/c splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.125 µg of Rat IgG1 K Isotype Control Alexa Fluor® 700 (Product # 56-4301-80) (left) or 0.125 µg of Anti-Mouse CD25 Alexa Fluor® 700 (right). Total viable cells were used for analysis.

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Immunohistochemistry (1)

International journal of molecular sciences	Year
Positive Effects of Oral Antibiotic Administration in Murine Chronic Graft-Versus-Host Disease.	2021
"Published figure using CD25 monoclonal antibody (Product # 56-0251-82) 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	

Flow Cytometry (82)

Nature communications	Year
Aiolos represses CD4 <sup>+</sup> T cell cytotoxic programming via reciprocal regulation of T <sub>FH</sub> transcription factors and IL-2 sensitivity.	2023
"Published figure using CD25 monoclonal antibody (Product # 56-0251-82) 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	

Nature communications	Year
Immunotherapy targeting plasma ASM is protective in a mouse model of Alzheimer's disease.	2023
"Published figure using CD25 monoclonal antibody (Product # 56-0251-82) in Flow Cytometry"	
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	

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

Neutralization (2)

Frontiers in cell and developmental biology	Year
Allergen-Specific Treg Cells Upregulated by Lung-Stage <i>S. japonicum</i> Infection Alleviates Allergic Airway Inflammation.	2021
"Published figure using CD25 monoclonal antibody (Product # 56-0251-82) in Neutralization"	
Authors: Li Z,Zhang W,Luo F,Li J,Yang W,Zhu B,Wu Q,Wang X,Sun C,Xie Y,Xu B,Wang Z,Qian F,Chen J,Wan Y,Hu W	

More applications with references on thermofisher.cn

FN (2)

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