CD25 Monoclonal Antibody (PC61.5), eFluor™ 450, eBioscience™

Product Details

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Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, lambda
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), eFluor™ 450, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	PC61.5
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 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_10671550

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 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 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

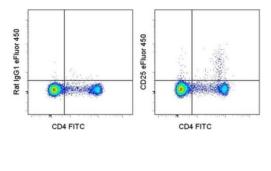
eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

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Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

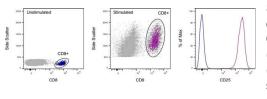
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD25 Monoclonal Antibody (PC61.5), eFluor™ 450, eBioscience™



CD25 Antibody (48-0251-82) in Flow

Staining of C57BI/6 splenocytes with Anti-Mouse CD4 FITC (Product # 11-0041-82) and 0.25 µg of Rat IgG1 kappa Isotype Control eFluor® 450 (Product # 48-4301-82) (left) or 0.25 µg of Anti-Mouse CD25 eFluor® 450 (right). Total viable cells were used for analysis.



CD25 Antibody (48-0251-82)

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}

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87 References

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 # 48-0251-82) 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 2023
Immunotherapy targeting plasma ASM is protective in a mouse model of Alzheimer's disease.	
"Published figure using CD25 monoclonal antibody (Product # 48-0251-82) 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	

Nature communications

Aiolos represses CD4⁺ T cell cytotoxic programming via reciprocal regulation of T_{FH} transcription factors and IL-2 sensitivity.

"Published figure using CD25 monoclonal antibody (Product # 48-0251-82) 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

View more Flow references on thermofisher.com

Neutralization (2)

Frontiers in cell and developmental biology

Allergen-Specific Treg Cells Upregulated by Lung-Stage *S. japonicum* Infection Alleviates Allergic Airway Inflammation.

"Published figure using CD25 monoclonal antibody (Product # 48-0251-82) 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.com

FN (2)

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Year 2021

Year 2021

Year 2023