

CD25 Monoclonal Antibody (PC61.5), Alexa Fluor™ 647, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG1, lambda
Class	Monoclonal
Type	Antibody
Clone	PC61.5
Conjugate	Alexa Fluor™ 647
Excitation/Emission Max	650/671 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_2744734

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	37 Publications
Neutralization (Neu)	-	1 Publication

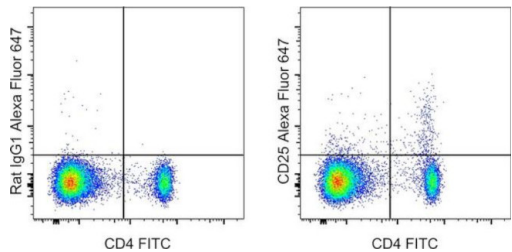
Product Specific Information

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: 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 may 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: 633-647 nm; **Emission:** 668 nm; **Laser:** Red Laser



CD25 Antibody (51-0251-82) in Flow

Swiss Webster mouse splenocytes were stained with CD4 Monoclonal Antibody, FITC (Product # 11-0042-82) and 0.125 µg of Rat IgG1 kappa Isotype Control, Alexa Fluor 647 (Product # 51-4301-81) (left) or 0.125 µg of CD25 Monoclonal Antibody, Alexa Fluor 647 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://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 # 51-0251-82) 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

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 # 51-0251-82) 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

Year
2021

Flow Cytometry (37)

Nature communications

Immunotherapy targeting plasma ASM is protective in a mouse model of Alzheimer's disease.

"Published figure using CD25 monoclonal antibody (Product # 51-0251-82) 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

Year
2023

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 # 51-0251-82) 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

Year
2023

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

More applications with references on thermofisher.com

Neu (1)

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