

CD25 Monoclonal Antibody (PC61.5), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, lambda
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PC61.5
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_468914

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	126 Publications
Neutralization (Neu)	Assay-Dependent	5 Publications
Functional Assay (FN)	Assay-Dependent	15 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, and in vitro blocking of mouse CD25 (IL-2R alpha, p55).

Applications Tested: The PC61.5 antibody has been tested by flow cytometric analysis of mouse spleen cells and Con A-stimulated splenocyte culture. This can be used at less than or equal to 0.5 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.

Storage and handling: Use in a sterile environment.

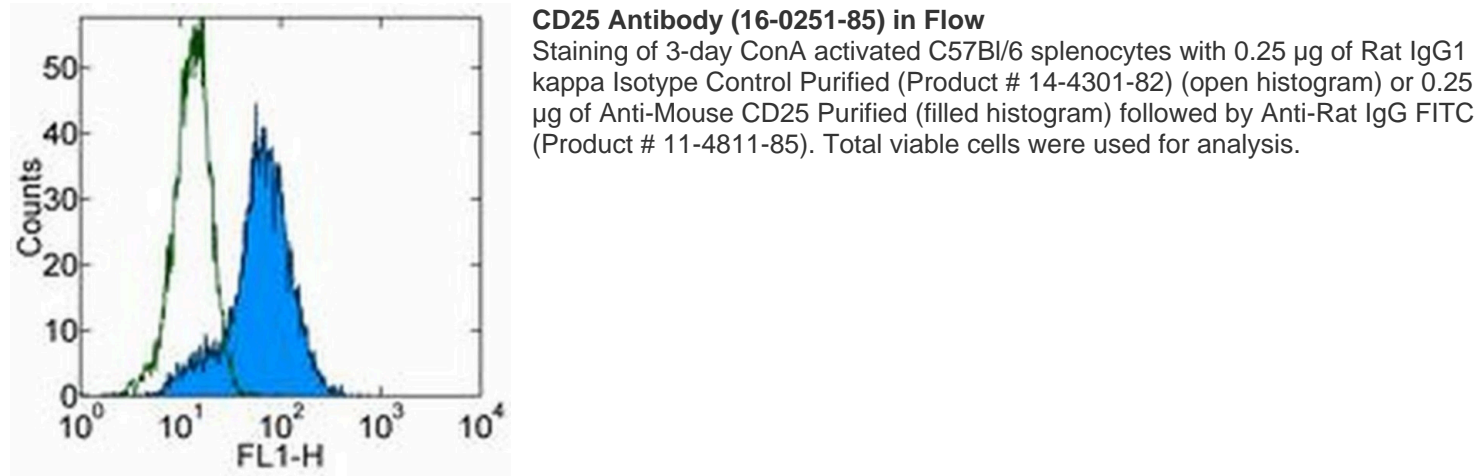
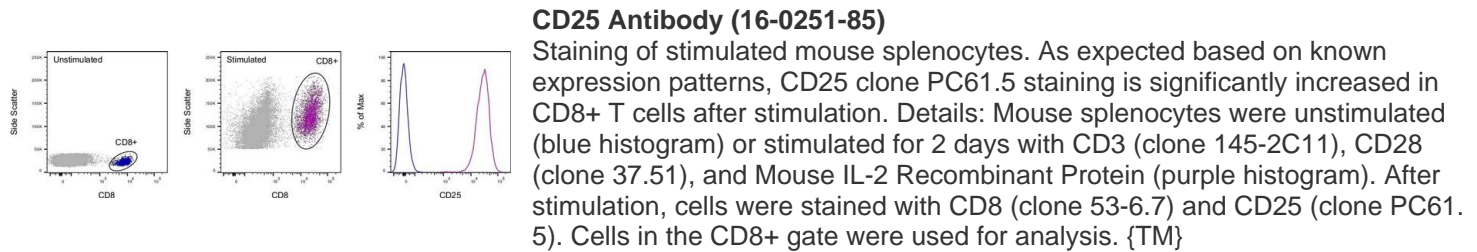
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

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



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Western Blot (1)

Cell reports	Year 2020
Mitochondrial Pyruvate Carrier 1 Promotes Peripheral T Cell Homeostasis through Metabolic Regulation of Thymic Development.	
"Published figure using CD25 monoclonal antibody (Product # 16-0251-85) 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	

Immunohistochemistry (1)

International journal of molecular sciences	Year 2021
Positive Effects of Oral Antibiotic Administration in Murine Chronic Graft-Versus-Host Disease.	
"Published figure using CD25 monoclonal antibody (Product # 16-0251-85) 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 (126)

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 # 16-0251-85) 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	Year 2023
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 # 16-0251-85) 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	

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More applications with references on thermofisher.com

- Neu (5)
- FN (15)

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