

CD25 Monoclonal Antibody (PC61.5), APC-eFluor 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgG1, lambda
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PC61.5
Conjugate	APC-eFluor® 780
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_1272179

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.5 µg/test	38 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 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.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

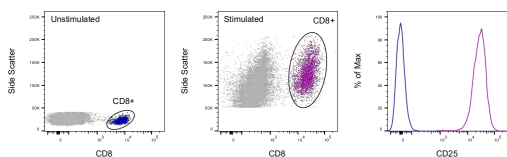
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

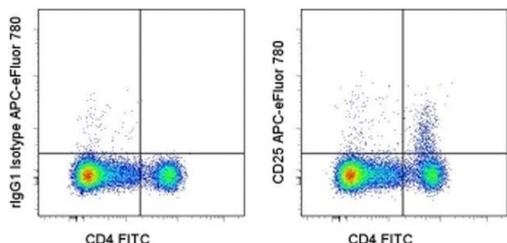
Advanced Verification Data



CD25 Antibody (47-0251-82)

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), APC-eFluor 780, eBioscience™



CD25 Antibody (47-0251-82) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD4 FITC (Product # 11-0041-82) and 0.25 μ g of Rat IgG1 K Isotype Control APC-eFluor® 780 (Product # 47-4301-80) (left) or 0.25 μ g of Anti-Mouse CD25 APC-eFluor® 780 (right). Total viable cells were used for analysis.

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Flow Cytometry (38)

eLife

A stochastic epigenetic switch controls the dynamics of T-cell lineage commitment.

"Published figure using CD25 monoclonal antibody (Product # 47-0251-82) in Flow Cytometry"

Authors: Ng KK, Yui MA, Mehta A, Siu S, Irwin B, Pease S, Hirose S, Elowitz MB, Rothenberg EV, Kueh HY

Species
Not Applicable

Dilution
Not Cited

Year
2018

Frontiers in immunology

CD4⁺ T Cell Fate Decisions Are Stochastic, Precede Cell Division, Depend on G1TR Co-Stimulation, and Are Associated With Uropodium Development.

Authors: Cobbold SP, Adams E, Howie D, Waldmann H

Species
Mouse

Dilution
Not Cited

Year
2018

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

Functional Assay (2)

Cancer research

Combination of tumor site-located CTL-associated antigen-4 blockade and systemic regulatory T-cell depletion induces tumor-destructive immune responses.

Authors: Tuve S, Chen BM, Liu Y, Cheng TL, Touré P, Sow PS, Feng Q, Kiviat N, Strauss R, Ni S, Li ZY, Roffler SR, Lieber A

Species
Not Applicable

Dilution
Not Cited

Year
2007

Cancer research

Listeria monocytogenes promotes tumor growth via tumor cell toll-like receptor 2 signaling.

Authors: Huang B, Zhao J, Shen S, Li H, He KL, Shen GX, Mayer L, Unkeless J, Li D, Yuan Y, Zhang GM, Xiong H, Feng ZH

Species
Not Applicable

Dilution
Not Cited

Year
2007

More applications with references on thermofisher.com

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