

PE/Cyanine7 anti-human CD25 Antibody

Catalog# / Size	302611 / 25 tests 302612 / 100 tests
Clone	BC96
Regulatory Status	RUO
Workshop	V T-072
Other Names	Low affinity IL-2R, IL-2R α chain, Tac, p55
Isotype	Mouse IgG1, κ
Description	CD25 is a 55 kD type I transmembrane glycoprotein also known as the low affinity IL-2 receptor α chain or Tac. It is expressed on progenitor lymphocytes, activated T and B cells, and activated monocytes/macrophages. CD25 is also expressed on a subset of non-stimulated CD4 ⁺ T cells termed T regulatory cells. CD25 associates with the IL-2 receptor β (CD122) and common γ chains (CD132) to form the high affinity IL-2R complex.

Product Details

Verified Reactivity	Human
Reported Reactivity	Baboon, Chimpanzee, Cynomolgus, Pigtailed Macaque, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications include: immunocytochemistry ³ .
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References	1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. 2. Kmiecik M, <i>et al.</i> 2009. <i>J. Transl. Med.</i> 7:89. (FC) PubMed 3. Ernst CW, <i>et al.</i> 2007. <i>Clin. Exp. Immunol.</i> 148:271. (ICC) PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	1. Couturier J, <i>et al.</i> 2016. <i>Retrovirology.</i> 13:30. PubMed 2. Rendeiro AF, <i>et al.</i> 2020. <i>Nat Commun.</i> 11:577. PubMed 3. Kagoya Y, <i>et al.</i> 2018. <i>Nat Commun.</i> 9:1915. PubMed 4. Barry KC, <i>et al.</i> 2018. <i>Nat Med.</i> 24:1178. PubMed 5. Schmidleithner L <i>et al.</i> 2019. <i>Immunity.</i> 50(5):1232-1248 . PubMed

6. Palamides P, *et al.* 2016. *Dis Model Mech.* 9: 985 - 997. [PubMed](#)
7. Massafra V, *et al.* 2021. *J Immunol.* 207:493. [PubMed](#)
8. Glaubitz J, *et al.* 2022. *Nat Commun.* 13:4502. [PubMed](#)
9. Wu W, *et al.* 2020. *Oncol Lett.* 0.91875. [PubMed](#)
10. Huang B, *et al.* 2020. *Cell.* 179(5):1160-1176.e24.. [PubMed](#)
11. Gorczynski RM, *et al.* 2017. *Immunology.* 150:418. [PubMed](#)
12. Kim ST, *et al.* 2022. *Nat Commun.* 13:1970. [PubMed](#)
13. Zirngibl F, *et al.* 2021. *J Immunother Cancer.* 9:. [PubMed](#)
14. Obradovic A, *et al.* 2021. *Cell.* 184(11):2988-3005.e16. [PubMed](#)
15. Evans RDR, *et al.* 2020. *Nat Commun.* 3.491666667. [PubMed](#)
16. Levring TB, *et al.* 2019. *Sci Rep.* 9:16725. [PubMed](#)
17. Sayin I, *et al.* 2018. *J Exp Med.* 7:40286. [PubMed](#)
18. Acharya A, *et al.* 2020. *J Virol.* 95:e01657. [PubMed](#)
19. Overacre-Delgoffe AE, *et al.* 2017. *Cell.* 169:1130. [PubMed](#)
20. Xu X, *et al.* 2020. *Arthritis Rheumatol.* 72:1303. [PubMed](#)
21. NULL, *et al.* 2022. *Cell.* 185:916. [PubMed](#)
22. Weinberg A, *et al.* 2015. *PLoS One.* 10:122431. [PubMed](#)
23. Mackroth M, *et al.* 2016. *PLoS Pathog.* 12:e1005909. [PubMed](#)
24. Groen B, *et al.* 2015. *Sci Rep.* 5: 13618. [PubMed](#)
25. Gonzalez-Figueroa P, *et al.* 2021. *Cell.* 184(7):1775-1789.e19. [PubMed](#)

RRID AB_314281 (BioLegend Cat. No. 302611)
 AB_314282 (BioLegend Cat. No. 302612)

Antigen Details

Structure	Type I transmembrane glycoprotein, 55 kD
Distribution	Activated T cells and B cells, monocytes/macrophages, Treg
Function	Associates with IL-2 receptor β (CD122) and γ chains (CD132) to form high affinity IL-2R complex
Ligand/Receptor	IL-2
Cell Type	B cells, Macrophages, Monocytes, T cells, Tregs
Biology Area	Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors
Antigen References	1. Taniguchi T, <i>et al.</i> 1993. <i>Cell</i> 73:5. 2. Waldmann T. 1991. <i>J. Biol. Chem.</i> 266:2681.
Gene ID	3559

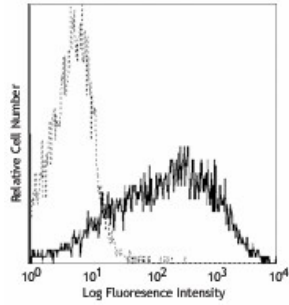
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD25, FITC anti-human CD25, PE anti-human CD25, PE/Cyanine5 anti-human CD25, Purified anti-human CD25, APC/Cyanine7 anti-human CD25, PE/Cyanine7 anti-human CD25, Alexa Fluor® 488 anti-human CD25, Alexa Fluor® 647 anti-human CD25, Pacific Blue™ anti-human CD25, Alexa Fluor® 700 anti-human CD25, Biotin anti-human CD25, PerCP/Cyanine5.5 anti-human CD25, Brilliant Violet 421™ anti-human CD25, Brilliant Violet 605™ anti-human CD25, Brilliant Violet 650™ anti-human CD25, Brilliant Violet 711™ anti-human CD25, Brilliant Violet 785™ anti-human CD25, Brilliant Violet 510™ anti-human CD25, APC/Fire™ 750 anti-human CD25, TotalSeq™-A0085 anti-human CD25, PE/Dazzle™ 594 anti-human CD25, TotalSeq™-B0085 anti-human CD25, TotalSeq™-C0085 anti-human CD25, TotalSeq™-D0085 anti-human CD25

Product Data



PHA-stimulated (3 day) human peripheral blood lymphocytes were stained with CD25 (clone BC96) PE/Cyanine7 (solid line) or mouse IgG1, κ PE/Cyanine7 isotype control (dotted line).

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