

Purified anti-human CD25 Antibody

Catalog# / Size	302602 / 100 µg
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.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested ICC - Reported in the literature, not verified in house
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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications include: immunocytochemistry ³ .
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. Aroqi F, <i>et al.</i> 2017. <i>J Clin Immunol.</i> . 10.1007/s10875-017-0451-1. PubMed 2. Wang W, <i>et al.</i> 2018. <i>Cancer Cell.</i> 34:757. PubMed 3. Chakhtoura M, <i>et al.</i> 2021. <i>PLoS Pathog.</i> 17:e1009732. PubMed 4. Volchenkov R, <i>et al.</i> 2017. <i>Front Immunol.</i> 0.818055556. PubMed 5. Kaufmann M, <i>et al.</i> 2021. <i>Med.</i> 2(3):296-312.e8. PubMed 6. Li Y, <i>et al.</i> 2019. <i>Front Immunol.</i> 0.460416667. PubMed 7. Li H, <i>et al.</i> 2020. <i>Front Immunol.</i> 11:1777. PubMed 8. Gunawan M, <i>et al.</i> 2017. <i>Sci Rep.</i> . 10.1038/s41598-017-16999-7. PubMed 9. Sharabi A, <i>et al.</i> 2019. <i>JCI Insight.</i> 4:e126294. PubMed 10. Sattler A, <i>et al.</i> 2021. <i>Am J Transplant.</i> 21:87. PubMed 11. Muhammad F, <i>et al.</i> 2020. <i>J Autoimmun.</i> 111:102441. PubMed 12. Ardain A, <i>et al.</i> 2019. <i>Nature.</i> 570:528. PubMed 13. Roussel M, <i>et al.</i> 2021. <i>Cell Reports Medicine.</i> 2(6):100291. PubMed 14. Umeda M, <i>et al.</i> 2021. <i>Proc Natl Acad Sci U S A.</i> 118:. PubMed

15. Chiou SH, *et al.* 2021. *Immunity*. 54:586. [PubMed](#)
16. Martin E, *et al.* 2020. *JCI Insight*. :5. [PubMed](#)

RRID AB_314272 (BioLegend Cat. No. 302602)

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

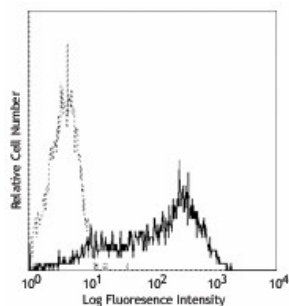
Related Protocols

[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 purified CD25 (clone BC96) (solid line) or purified mouse IgG1, κ isotype control (dotted line).

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