FITC anti-human CD25 Antibody

Catalog# / Size	302603 / 25 tests 302604 / 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 FITC 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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications include: immunocytochemistry[3].
Application References **(PubMed link indicates BioLegend citation)**	1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. 2. Kmieciak M, *et al.* 2009. *J. Transl. Med.* 7:89. (FC) PubMed 3. Ernst CW, *et al.* 2007. *Clin. Exp. Immunol.* 148:271. (ICC) PubMed
Product Citations	1. Garcia–Perez JE, *et al.* 2019. Front Immunol. 10:998. PubMed 2. Wang H, *et al.* 2020. Mol Oncol. 14:991. PubMed 3. Kubo M, *et al.* 2018. Oncol Rep. 39:417. PubMed 4. Pauthner MG, *et al.* 2019. Immunity. 50:241. PubMed 5. Beswick E, *et al.* 2011. Infect Immun. 79:2737. PubMed 6. Aqel SI, *et al.* 2021. JCI Insight. 6:e142376. PubMed 7. Alissafi T, *et al.* 2020. Cell Metabolism. 32(4):591-604.e7. PubMed 8. Miles B, *et al.* 2015. Nat Commun. 6: 8608. PubMed 9. Turner AW, *et al.* 2020. ACS Infect Dis. 6:1719. PubMed 10. Grivas A, *et al.* 2022. Front Immunol. 13:964274. PubMed

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RRID

AB_314273 (BioLegend Cat. No. 302603)
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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, *et al.* 1993. *Cell* 73:5. 2. Waldmann T. 1991. *J. Biol. Chem.* 266:2681.
Gene ID	3559

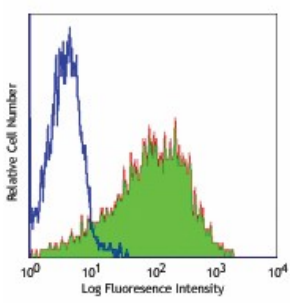
Related Protocols

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) FITC (filled histogram) or mouse IgG1, κ FITC isotype control (open histogram).

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