

PE/Cyanine5 anti-human CD25 Antibody

Catalog# / Size	302607 / 25 tests 302608 / 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/Cyanine5 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/Cy5 to PE/Cyanine5. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine5 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. Liu F, <i>et al.</i> 2016. PLoS Pathog. 12: 1005663. PubMed 2. Sutavani R, <i>et al.</i> 2013. J Immunol. 191:5895. PubMed 3. Tardif V, <i>et al.</i> 2019. Nat Commun. 10:823. PubMed 4. Billing F, <i>et al.</i> 2021. ACS Appl Mater Interfaces. 13:55534. PubMed 5. Rodda LB, <i>et al.</i> 2020. Cell. 184(1):169-183.e17. PubMed

6. Pucino V, *et al.* 2020. *Cell Metabolism*. 30(6):1055-1074.e8.. [PubMed](#)
7. Sehgal R, *et al.* 2022. *Front Immunol*. 13:828949. [PubMed](#)
8. O'Connor MH, *et al.* 2021. *Commun Biol*. 4:563. [PubMed](#)
9. Duhon T, *et al.* 2012. *Blood*. 119:4430. [PubMed](#)

RRID AB_314277 (BioLegend Cat. No. 302607)
 AB_314278 (BioLegend Cat. No. 302608)

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

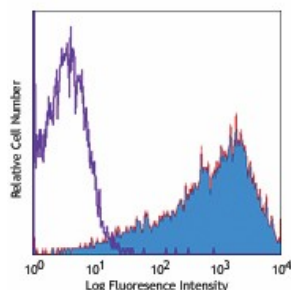
Related Protocols

[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/Cyanine5 (filled histogram) or mouse IgG1, κ PE/Cyanine5 isotype control (open histogram).

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