

CD25 Monoclonal Antibody (BC96), PE,

eBioscience™

Catalog Number

12-0259-41

Product data sheet

Details	
Size	25 Tests
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	BC96
Conjugate	PE
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!

Species Reactivity	
Species reactivity	Human
Published species	Human, Mouse
Tested Applications	
Flow Cytometry (Flow)	5 µL (0.125 µg)/test
Published Applications	
Flow Cytometry (Flow)	See 39 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Description: The BC96 monoclonal antibody reacts with human CD25, the 55 kDa interleukin-2 receptor alpha chain (IL-2Ralpha). CD25 is expressed by early progenitors of 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. CD25 plays a role in lymphocyte differentiating and activation/proliferation. Applications Reported: The BC96 antibody has been reported for use in flow cytometric analysis. Applications Tested: The BC96 antibody is offered in 2 formats: - µg size: It can be used at less than or equal to 0.25 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested and can be used at 5 µL (0.125 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 10^5 to 10^8 cells/test. Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser. Filtration: 0.2 µm post-manufacturing filtered.

Background/Target Information

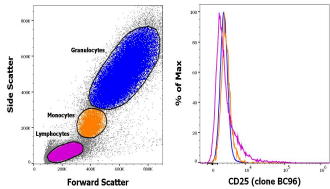
CD25 (IL2 receptor alpha chain/IL2RA) is a cytokine that plays a role in the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2RA) is a heterotrimeric protein complex with a gamma chain also shared by interleukin 4 (IL4) and interleukin 7 (IL7). IL2RA, IL2R beta chain (IL2RB), and the IL2R gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric IL2RA chains result in low-affinity receptor, while homodimeric IL2RB chains produce a medium-affinity receptor. The expression of IL2 in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. IL2 is primarily produced by mature T cells. IL2 plays an important role as a growth factor, differentiation factor, and regulator of cell death. IL-2 stimulates the proliferation of B cells, augments natural killer cell activity, and inhibits granulocyte macrophage colony formation. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests a role in the immune response to antigenic stimuli. Mutations in this gene are associated with interleukin 2 receptor alpha deficiency.

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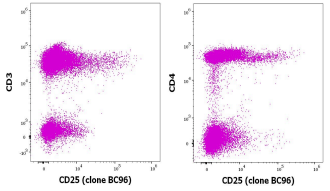
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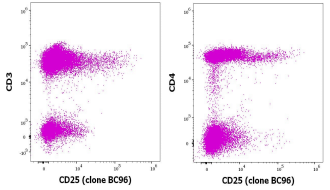
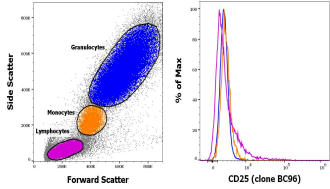
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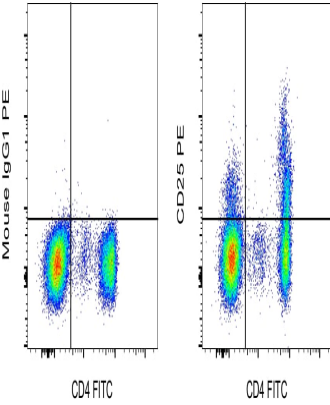
CD25 Antibody (12-0259-41)
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 FITC, CD4 APC and CD25 PE. As expected based on known relative expression patterns, CD25 clone BC96 stains a subset of lymphocytes (pink), but not monocytes (orange) and granulocytes (blue). {RE}



CD25 Antibody (12-0259-41) in Flow
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 FITC, CD4 APC and CD25 PE. As expected based on known relative expression patterns, CD25 clone BC96 stains a subset of lymphocytes (pink), but not monocytes (orange) and granulocytes (blue).



CD25 Antibody (12-0259-41) in Flow
Normal human peripheral blood cells were stained with CD4 Monoclonal Antibody, FITC (Product # 11-0047-42) and Mouse IgG1 kappa Isotype Control, PE (Product # 12-4714-82) (left) or CD25 Monoclonal Antibody, PE (right). Cells in the lymphocyte gate were used for analysis.



39 Flow Cytometry References

Species / Dilution	Summary
Mouse / Not Cited	12-0259 was used in Flow cytometry/Cell sorting to show that upregulation of FOXM1 by H3K79me2 in pancreatic cancer and colon cancer significantly inhibits maturation phenotypes and function of bone marrow dendritic cells (BMDCs) through the Wnt5a signaling pathway, and thus provide novel insights into FOXM1-based antitumor immunotherapy.
	Molecular oncology (2019; 13: 873) "Epigenetically modulated FOXM1 suppresses dendritic cell maturation in pancreatic cancer and colon cancer." Author(s):Zhou Z,Chen H,Xie R,Wang H,Li S,Xu Q,Xu N,Cheng Q,Qian Y,Huang R,Shao Z,Xiang M PubMed Article URL: http://dx.doi.org/10.1002/1878-0261.12443
Human / Not Cited	12-0259-42 was used in Flow cytometry/Cell sorting to investigate if RNA-seq data can be exploited to help identify tumor-associated exons that can be targeted by CAR T cell therapies.
	Cell reports. Medicine (2021; 2:) "CAR T cells targeting tumor-associated exons of glypican 2 regress neuroblastoma in mice." Author(s):Li N,Torres MB,Spetz MR,Wang R,Peng L,Tian M,Dower CM,Nguyen R,Sun M,Tai CH,de Val N,Cachau R,Wu X,Hewitt SM,Kaplan RN,Khan J,St Croix B,Thiele CJ,Ho M PubMed Article URL: http://dx.doi.org/10.1016/j.xcrm.2021.100297
Human / Not Cited	12-0259 was used in Flow cytometry/Cell sorting to study the functional regulation of T cells by human Fc receptor-like 3.
	Cell reports (2020; 30: 1292) "Human Fc Receptor-like 3 Inhibits Regulatory T Cell Function and Binds Secretory IgA." Author(s):Agarwal S,Kraus Z,Dement-Brown J,Alabi O,Starost K,Tolnay M PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2019.12.099
Human / Not Cited	12-0259 was used in Flow cytometry/Cell sorting to investigate the functional outcome of the interaction between regDC and NK cells and the associated underlying mechanisms.
	Journal of immunology (Baltimore, Md. : 1950) (2015; 195: 2141) "Regulatory Dendritic Cells Restrain NK Cell IFN- Production through Mechanisms Involving Nkp46, IL-10, and MHC Class I-Specific Inhibitory Receptors." Author(s):Spallanzani RG,Torres NI,Avila DE,Ziblat A,Iraolagoitia XL,Rossi LE,Domaica CI,Fuertes MB,Rabinovich GA,Zwirner NW PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1403161
Human / Not Cited	12-0259 was used in Flow cytometry/Cell sorting to demonstrate an approach to expand the fragment crystallisable region-specific nTreg population to prevent the development of coronary artery abnormalities.
	Autoimmunity (2015; 48: 181) "Fine specificities of natural regulatory T cells after IVIG therapy in patients with Kawasaki disease." Author(s):Burns JC,Touma R,Song Y,Padilla RL,Tremoulet AH,Sidney J,Sette A,Franco A PubMed Article URL: http://dx.doi.org/10.3109/08916934.2015.1027817
Human / Not Cited	12-0259 was used in Flow cytometry/Cell sorting to explore the mechanism of regulatory T cell/Th17 imbalance and the role of high mobility group box-1 protein on the balance in atherosclerosis.
	Acta Cardiologica Sinica (2018; 34: 399) "The Effects of High Mobility Group Box-1 Protein on Peripheral Treg/Th17 Balance in Patients with Atherosclerosis." Author(s):Ding JW,Zhou T,Zheng XX,Wang XA,Tong XH,Luo CY,Zhang ZQ,Yu B PubMed Article URL: http://dx.doi.org/10.6515/ACS.201809_34(5).20180419A
Human / 1:25	12-0259 was used in Flow cytometry/Cell sorting to explore the mode of action of Dimethyl fumarate as a therapy for autoimmune diseases.
	Science signaling (2016; 9:) "Chemical proteomic map of dimethyl fumarate-sensitive cysteines in primary human T cells." Author(s):Blewett MM,Xie J,Zaro BW,Backus KM,Altman A,Tejjaro JR,Cravatt BF PubMed Article URL: http://dx.doi.org/10.1126/scisignal.aaf7694
Mouse / Not Cited	12-0259-42 was used in Flow cytometry/Cell sorting to investigate the role of MondoA in colorectal cancer-infiltrating Tregs in response to glucose limitation.
	Gastroenterology (2021; 161: 575) "MondoA-Thioredoxin-Interacting Protein Axis Maintains Regulatory T-Cell Identity and Function in Colorectal Cancer Microenvironment." Author(s):Lu Y,Li Y,Liu Q,Tian N,Du P,Zhu F,Han Y,Liu X,Liu X,Peng X,Wang X,Wu Y,Tong L,Li Y,Zhu Y,Wu L,Zhang P,Xu Y,Chen H,Li B,Tong X PubMed Article URL: http://dx.doi.org/10.1053/j.gastro.2021.04.041

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	12-0259 was used in Flow cytometry/Cell sorting to investigate the effect of histone deacetylase inhibitors on immune cells, showing that they can impair NK cell viability and effector functions.
Human / Not Cited	Journal of leukocyte biology (2012; 91: 321) "Histone deacetylase inhibitors impair NK cell viability and effector functions through inhibition of activation and receptor expression." Author(s):Rossi LE,Avila DE,Spallanzani RG,Ziblat A,Fuertes MB,Lapyckyj L,Croci DO,Rabinovich GA,Domaica CI,Zwirner NW PubMed Article URL: http://dx.doi.org/10.1189/jlb.0711339
Human / Not Cited	12-0259 was used in Flow cytometry/Cell sorting to demonstrate that NPC patients could be distinguished on the basis of their immune status. International journal of biological sciences (2011; 7: 607) "Immunophenotyping at the time of diagnosis distinguishes two groups of nasopharyngeal carcinoma patients: implications for adoptive immunotherapy." Author(s):Li J,Chen QY,Mo H,Zhang YL,Huang ZF,Zeng YX PubMed Article URL: http://dx.doi.org/10.7150/ijbs.7.607
Human / Not Cited	12-0259-42 was used in Flow cytometry/Cell sorting to find that TSLP is reduced at both mRNA and protein levels in inflamed UC patients when compared with healthy subjects, in both whole biopsies and biopsy-isolated CD4+ CD25+ T cells. Inflammatory bowel diseases (2018; 24: 2377) "MicroRNA-31 Targets Thymic Stromal Lymphopoietin in Mucosal Infiltrated CD4+ T Cells: A Role in Achieving Mucosal Healing in Ulcerative Colitis?" Author(s):Whiteoak SR,Claridge A,Balendran CA,Harris RJ,Gwiggner M,Bondanese VP,Erlandsson F,Hansen MB,Cummings JRF,Sanchez-Elsner T PubMed Article URL: http://dx.doi.org/10.1093/ibd/izy213
Human / Not Cited	12-0259 was used in Flow cytometry/Cell sorting to investigate how blocking the HLA-DR2b allele with small molecule inhibitors may offer a promising therapeutic strategy for the treatment of multiple sclerosis. Journal of immunology (Baltimore, Md. : 1950) (2013; 191: 5074) "Small molecule inhibitor of antigen binding and presentation by HLA-DR2b as a therapeutic strategy for the treatment of multiple sclerosis." Author(s):Ji N,Somanaboeina A,Dixit A,Kawamura K,Hayward NJ,Self C,Olson GL,Forsthuber TG PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1300407
Mouse / Not Cited	12-0259-42 was used in Flow cytometry/Cell sorting to study the role of microRNA-210 in the immune imbalance of T lymphocyte subsets in psoriasis and suggest a potential therapeutic avenue. The Journal of clinical investigation (2018; 128: 2551) "MicroRNA-210 overexpression promotes psoriasis-like inflammation by inducing Th1 and Th17 cell differentiation." Author(s):Wu R,Zeng J,Yuan J,Deng X,Huang Y,Chen L,Zhang P,Feng H,Liu Z,Wang Z,Gao X,Wu H,Wang H,Su Y,Zhao M,Lu Q PubMed Article URL: http://dx.doi.org/10.1172/JCI97426
Human / 1:20	12-0259 was used in Flow cytometry/Cell sorting to suggest that ANGPT2-stimulated TIE2-expressing monocytes /macrophages represent a novel, potent immunosuppressive force in tumours. Journal of immunology (Baltimore, Md. : 1950) (2011; 186: 4183) "Angiopoietin 2 stimulates TIE2-expressing monocytes to suppress T cell activation and to promote regulatory T cell expansion." Author(s):Coffelt SB,Chen YY,Muthana M,Welford AF,Tal AO,Scholz A,Plate KH,Reiss Y,Murdoch C,De Palma M,Lewis CE PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1002802
Human / Not Cited	12-0259 was used in Flow cytometry/Cell sorting to investigate how differentially functionalised cellulose nanofibrils affect dendritic cell properties, their viability, morphology, differentiation and maturation potential, and the capacity to regulate T cell-mediated immune response. International journal of nanomedicine (2018; 13: 6941) "Functionalization-dependent effects of cellulose nanofibrils on tolerogenic mechanisms of human dendritic cells." Author(s):Tomi S,Ili N,Kokol V,Gruden-Movsesijan A,Mihajlovi D,Beki M,Sofroni-Milosavljevi L,oli M,Vuevi D PubMed Article URL: http://dx.doi.org/10.2147/IJN.S183510
Human / Not Cited	12-0259 was used in Flow cytometry/Cell sorting to investigate treatment of refractory KD with a calcineurin inhibitor. The Journal of pediatrics (2012; 161: 506) "Calcineurin inhibitor treatment of intravenous immunoglobulin-resistant Kawasaki disease." Author(s):Tremoulet AH,Pancoast P,Franco A,Bujold M,Shimizu C,Onouchi Y,Tamamoto A,Erdem G,Dodd D,Burns JC PubMed Article URL: http://dx.doi.org/10.1016/j.jpeds.2012.02.048

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	12-0259 was used in Flow cytometry/Cell sorting to assess the impact of anti-T cell globulin on the recovery of a large variety of lymphoid cell subsets as well as on thymic function after myeloablative peripheral blood stem cell transplantation.
Human / Not Cited	<p>PloS one (2016; 10:)</p> <p>"Impact of Pre-Transplant Anti-T Cell Globulin (ATG) on Immune Recovery after Myeloablative Allogeneic Peripheral Blood Stem Cell Transplantation."</p> <p>Author(s):Servais S,Menten-Dedoyart C,Beguín Y,Seidel L,Gothot A,Daulne C,Willems E,Delens L,Humblot-Baron S, Hannon M,Baron F</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0130026</p>
	12-0259 was used in Flow cytometry/Cell sorting to shed light on the potential involvement of peripheral T and B cell immunity against this mycotic infection.
Human / Not Cited	<p>Frontiers in immunology (2021; 11:)</p> <p>"Th2 Biased Immunity With Altered B Cell Profiles in Circulation of Patients With Sporotrichosis Caused by <i>Sporothrix globosa</i>."</p> <p>Author(s):Zu J,Yao L,Song Y,Cui Y,Guan M,Chen R,Zhen Y,Li S</p> <p>PubMed Article URL:http://dx.doi.org/10.3389/fimmu.2020.570888</p>
	12-0259 was used in Flow cytometry/Cell sorting to investigate peripheral blood T-lymphocyte subpopulations and intracellular expression of various interleukins and interferons in type I Gaucher disease patients.
Human / Not Cited	<p>JIMD reports (2015; 18: 107)</p> <p>"Severe impairment of regulatory T-cells and Th1-lymphocyte polarization in patients with Gaucher disease."</p> <p>Author(s):Sotiropoulos C,Theodorou G,Repa C,Marinakis T,Verigou E,Solomou E,Karakantza M,Symeonidis A</p> <p>PubMed Article URL:http://dx.doi.org/10.1007/8904_2014_357</p>
	12-0259 was used in Flow cytometry/Cell sorting to characterise the RNA expression of infiltrating T cells in liver cancer.
Human / Not Cited	<p>Cell (2017; 169: 1342)</p> <p>"Landscape of Infiltrating T Cells in Liver Cancer Revealed by Single-Cell Sequencing."</p> <p>Author(s):Zheng C,Zheng L,Yoo JK,Guo H,Zhang Y,Guo X,Kang B,Hu R,Huang JY,Zhang Q,Liu Z,Dong M,Hu X,Ouyang W,Peng J,Zhang Z</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.cell.2017.05.035</p>
	12-0259 was used in Flow cytometry/Cell sorting to suggest that the therapeutic effect of Flt3-L is mediated by increased density of CD41CD251Foxp31IL101ICOS1 T-regulatory cells in the lung.
Mouse / Not Cited	<p>American journal of respiratory cell and molecular biology (2010; 42: 331)</p> <p>"Flt3-L increases CD4+CD25+Foxp3+ICOS+ cells in the lungs of cockroach-sensitized and -challenged mice."</p> <p>Author(s):McGee HS,Edwan JH,Agrawal DK</p> <p>PubMed Article URL:http://dx.doi.org/10.1165/rcmb.2008-0397OC</p>
	12-0259 was used in Flow cytometry/Cell sorting to show how systemic juvenile idiopathic arthritis (sJIA) transitions from acute to chronic through the evolving Th17 polarization that begins in Tregs and progresses to T effector cells (Teffs).
Human / Not Cited	<p>JCI insight (2020; 5:)</p> <p>"Th17 reprogramming of T cells in systemic juvenile idiopathic arthritis."</p> <p>Author(s):Henderson LA,Hoyt KJ,Lee PY,Rao DA,Jonsson AH,Nguyen JP,Rutherford K,Julé AM,Charbonnier LM,Case S, Chang MH,Cohen EM,Dedeoglu F,Fuhlbrigge RC,Halyabar O,Hazen MM,Janssen E,Kim S,Lo J,Lo MS,Meidan E,Son MBF,Sundel RP,Stoll ML,Nusbaum C,Lederer JA,Chatila TA,Nigrovic PA</p> <p>PubMed Article URL:http://dx.doi.org/10.1172/jci.insight.132508</p>
	12-0259 was used in Flow cytometry/Cell sorting to show that radiation therapy may increase the likelihood of some cancer patients responding to immunotherapy.
Human / Not Cited	<p>Clinical cancer research : an official journal of the American Association for Cancer Research (2008; 14: 4883)</p> <p>"T-cell responses to survivin in cancer patients undergoing radiation therapy."</p> <p>Author(s):Schaue D,Comin-Anduix B,Ribas A,Zhang L,Goodglick L,Sayre JW,Debucquoy A,Haustermans K,McBride WH</p> <p>PubMed Article URL:http://dx.doi.org/10.1158/1078-0432.CCR-07-4462</p>
	12-0259 was used in Flow cytometry/Cell sorting to investigate the role of Tregs in Schistosoma mansoni infection, showing that Treg levels decrease in people on effective treatment.
Human / Not Cited	<p>The American journal of tropical medicine and hygiene (2007; 77: 676)</p> <p>"T regulatory cell levels decrease in people infected with Schistosoma mansoni on effective treatment."</p> <p>Author(s):Watanabe K,Mwinzi PN,Black CL,Muok EM,Karanja DM,Secor WE,Colley DG</p> <p>PubMed Article URL:http://www.ncbi.nlm.nih.gov/pubmed/17978070</p>

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	12-0259 was used in Flow cytometry/Cell sorting to investigate the ability of GITR-ligation and CTLA-4 blockade treatments to alleviate immunosuppression mediated by human liver tumor-derived regulatory T cells.
Human / Not Cited	<p>Oncoimmunology (2015; 4:)</p> <p>"GITR engagement in combination with CTLA-4 blockade completely abrogates immunosuppression mediated by human liver tumor-derived regulatory T cells <i>ex vivo</i>."</p> <p>Author(s):Pedroza-Gonzalez A,Zhou G,Singh SP,Boor PP,Pan Q,Grunhagen D,de Jonge J,Tran TK,Verhoef C,IJzermans JN,Janssen H,Biermann K,Kwekkeboom J,Sprengers D</p> <p>PubMed Article URL:http://dx.doi.org/10.1080/2162402X.2015.1051297</p>
	12-0259 was used in Flow cytometry/Cell sorting to understand the molecular basis for the use of common horsetail in the treatment of inflammatory disorders.
Human / Not Cited	<p>BMC complementary and alternative medicine (2014; 14:)</p> <p>"Equisetum arvense (common horsetail) modulates the function of inflammatory immunocompetent cells."</p> <p>Author(s):Gründemann C,Lengen K,Sauer B,Garcia-Käufer M,Zehl M,Huber R</p> <p>PubMed Article URL:http://dx.doi.org/10.1186/1472-6882-14-283</p>
	12-0259 was used in Flow cytometry/Cell sorting to reveal Tregs may promote PDA progression by inhibiting the antitumour immunity of CD8+ T cells at local intratumoural sites.
Human / Not Cited	<p>PloS one (2015; 9:)</p> <p>"An increased abundance of tumor-infiltrating regulatory T cells is correlated with the progression and prognosis of pancreatic ductal adenocarcinoma."</p> <p>Author(s):Tang Y,Xu X,Guo S,Zhang C,Tang Y,Tian Y,Ni B,Lu B,Wang H</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0091551</p>
	12-0259 was used in Flow cytometry/Cell sorting to explore the effects of genetic disruption of the gene PD-1 on T cell viability, IFN- production and cytotoxicity.
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