



# CD25 Monoclonal Antibody (BC96), PE-Cyanine7, eBioscience™

**Catalog Number** 

25-0259-41

Product data sheet

Details		Species Reactivity	
Size	25 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG1, kappa	Published species	Human, Mouse, Not Applicable, Rhesus monkey
Class	Monoclonal		
Туре	Antibody	Tested Applications	Dilution *
Clone	BC96	Flow Cytometry (Flow)	5 μL (0.25 μg)/test
Conjugate	PE-Cyanine7	Published Applications	
Form	Liquid	Flow Cytometry (Flow)	See 25 publications below
Concentration	5 μL/Test	*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.	
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!		

### 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: This BC96 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood. This can be used at 5  $\mu$ L (0.25  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light. Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically. Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser. Filtration: 0.2  $\mu$ m 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.

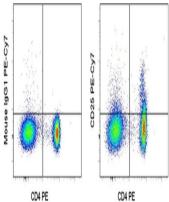
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## Product Images For CD25 Monoclonal Antibody (BC96), PE-Cyanine7, eBioscience™



#### CD25 Antibody (25-0259-41) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD4 PE (Product # 12-0049-42) and Mouse IgG1 kappa Isotype Control PE-Cyanine7 (Product # 25-4714-80) (left) or Anti-Human CD25 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

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25 Flow Cytometry Refe	erences
Species / Dilution	Summary
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to explore several aspects of cellular immunity in patients co-infected with human immunodeficiency virus-1 and Mycobacterium leprae.
	Immunology (2008; 124: 206)  "Immune cellular parameters of leprosy and human immunodeficiency virus-1 co-infected subjects."  Author(s):Carvalho KI,Maeda S,Marti L,Yamashita J,Haslett PA,Kallas EG  PubMed Article URL:http://dx.doi.org/10.1111/j.1365-2567.2007.02756.x
Human / 1:10	25-0259 was used in Flow cytometry/Cell sorting to investigate whether glioblastoma extracellular vesicles are important mediators of immunosuppression and whether programmed death ligand-1 could play a role.
	Science advances (2018; 4:)  "Immune evasion mediated by PD-L1 on glioblastoma-derived extracellular vesicles."  Author(s):Ricklefs FL,Alayo Q,Krenzlin H,Mahmoud AB,Speranza MC,Nakashima H,Hayes JL,Lee K,Balaj L,Passaro C, Rooj AK,Krasemann S,Carter BS,Chen CC,Steed T,Treiber J,Rodig S,Yang K,Nakano I,Lee H,Weissleder R,Breakefield XO,Godlewski J,Westphal M,Lamszus K,Freeman GJ,Bronisz A,Lawler SE,Chiocca EA  PubMed Article URL:http://dx.doi.org/10.1126/sciadv.aar2766
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to compare the immunomodulatory effect of giving GAD-alum directly into lymph nodes versus that induced by subcutaneous administration.
	Journal of diabetes research ( 2018; 2018: ) "Intralymphatic Glutamic Acid Decarboxylase-Alum Administration Induced Th2-Like-Specific Immunomodulation in Responder Patients: A Pilot Clinical Trial in Type 1 Diabetes." Author(s):Tavira B,Barcenilla H,Wahlberg J,Achenbach P,Ludvigsson J,Casas R PubMed Article URL:http://dx.doi.org/10.1155/2018/9391845
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to examine the in vitro effect of derivative 5-aza-2'-deoxycytidine on the stability and function of FACS-sorted human naturally occurring CD4+CD25high FOXP3+ regulatory T cells.
	Journal of immunology research (2018; 2018:) "DNA Methyltransferase Inhibition Promotes Th1 Polarization in Human CD4 <sup>+</sup> CD25 <sup>high</sup> + Regulatory T Cells but Does Not Affect Their Suppressive Capacity." Author(s):Landman S,Cruijsen M,Urbano PCM,Huls G,van Erp PEJ,van Rijssen E,Joosten I,Koenen HJPM PubMed Article URL:http://dx.doi.org/10.1155/2018/4973964
Human / 1:25	25-0259-42 was used in Flow Cytometry to explore the impact of regulatory T cell (Tregs) in gastric cancers (GCs) with distinct histology, and whether Tregs can directly influence tumor cell behavior and GC development.
	Cancers (2021; 13:)  "Immunophenotype of Gastric Tumors Unveils a Pleiotropic Role of Regulatory T Cells in Tumor Development."  Author(s):Rocha S,Basto AP,Ijsselsteijn ME,Teles SP,Azevedo MM,Gonçalves G,Gullo I,Almeida GM,Maqueda JJ,  Oliveira MI,Carneiro F,Barata JT,Graça L,de Miranda NFCC,Carvalho J,Oliveira C  PubMed Article URL:http://dx.doi.org/10.3390/cancers13030421
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to show individuals with BMI > 25 and rheumatoid arthritis had heightened concentrations of IL-1 beta, IL-21 and Th17 cells.
	Arthritis research & therapy ( 2017; 19: ) "Increased serum concentrations of IL-1 beta, IL-21 and Th17 cells in overweight patients with rheumatoid arthritis." Author(s):Shoda H,Nagafuchi Y,Tsuchida Y,Sakurai K,Sumitomo S,Fujio K,Yamamoto K PubMed Article URL:http://dx.doi.org/10.1186/s13075-017-1308-y
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to demonstrate Foxp3+nontreg cells as new biomarkers in the search of an effective therapeutic strategy in SLE.
	BioMed research international (2019; 2018:) "CD4 <sup>+</sup> CD45RA <sup>-</sup> FOXP3 <sup>low</sup> Regulatory T Cells as Potential Biomarkers of Disease Activity in Systemic Lupus Erythematosus Brazilian Patients." Author(s):Silva-Neta HL,Brelaz-de-Castro MCA,Chagas MBO,Mariz HA,de Arruda RG,de Vasconcelos VF,Pereira MC, Romano A,Pitta IR,Marques CDL,Duarte ALBP,Rêgo MJBM,Pitta MGR PubMed Article URL:http://dx.doi.org/10.1155/2018/3419565

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	25-0259 was used in Flow cytometry/Cell sorting to indicate that IRIS appears to be a predominantly CD4-mediated phenomenon.
Human / Not Cited	Blood (2010; 116: 3818) "Elevated frequencies of highly activated CD4+ T cells in HIV+ patients developing immune reconstitution inflammatory syndrome." Author(s):Antonelli LR,Mahnke Y,Hodge JN,Porter BO,Barber DL,DerSimonian R,Greenwald JH,Roby G,Mican J,Sher A, Roederer M,Sereti I PubMed Article URL:http://dx.doi.org/10.1182/blood-2010-05-285080
	25-0259 was used in Flow cytometry/Cell sorting to exhibit a novel method for the generation of non-human primate regulatory T cells with alloantigen specificity.
Rhesus monkey / Not Cited	Transplantation ( 2009; 88: 1057) "Rhesus monkey immature monocyte-derived dendritic cells generate alloantigen-specific regulatory T cells from circulating CD4+CD127-/lo T cells." Author(s):Zahorchak AF,Raimondi G,Thomson AW PubMed Article URL:http://dx.doi.org/10.1097/TP.0b013e3181ba6b1f
Mouse / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to investigate the impact of 5-azacytidine on xenogeneic graft-vshost disease and graft-vsleukaemia effects in a humanised murine model of transplantation.
	Oncoimmunology ( 2021; 6: ) "Azacytidine prevents experimental xenogeneic graft-versus-host disease without abrogating graft-versus-leukemia effects." Author(s):Ehx G,Fransolet G,de Leval L,D'Hondt S,Lucas S,Hannon M,Delens L,Dubois S,Drion P,Beguin Y,Humblet-Baron S,Baron F PubMed Article URL:http://dx.doi.org/10.1080/2162402X.2017.1314425
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to investigate a subset within the CD4 T cell population defined by expression of the immunomodulatory receptor CD300a.
	PloS one (2010; 5:)  "Human Th1 cells that express CD300a are polyfunctional and after stimulation up-regulate the T-box transcription factor eomesodermin."  Author(s):Narayanan S,Silva R,Peruzzi G,Alvarez Y,Simhadri VR,Debell K,Coligan JE,Borrego F  PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0010636
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to study the effect of PSM3 on the maturation, cytokine production, antigen uptake, and T cell stimulatory capacity of human monocyte-derived DCs treated simultaneously with either LPS (TLR4 ligand) or Sa cell lysate (TLR2 ligand).
	Frontiers in immunology ( 2019; 9: ) " <i>Staphylococcus aureus</i> PSM Peptides Modulate Human Monocyte-Derived Dendritic Cells to Prime Regulatory T Cells."  Author(s):Richardson JR,Armbruster NS,Günter M,Henes J,Autenrieth SE PubMed Article URL:http://dx.doi.org/10.3389/fimmu.2018.02603
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to investigate effects of desflurane and sevoflurane anesthesia on peripheral blood Tregs induction in patients undergoing living donor kidney transplantation.
	BMC anesthesiology ( 2020; 20: ) "Effects of Desflurane and Sevoflurane anesthesia on regulatory T cells in patients undergoing living donor kidney transplantation: a randomized intervention trial." Author(s):Chutipongtanate A,Prukviwat S,Pongsakul N,Srisala S,Kamanee N,Arpornsujaritkun N,Gesprasert G, Apiwattanakul N,Hongeng S,Ittichaikulthol W,Sumethkul V,Chutipongtanate S PubMed Article URL:http://dx.doi.org/10.1186/s12871-020-01130-7
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to elucidate the role of the neuroblastoma microenvironment in promoting regulatory T cell phenotype.
	Journal of oncology ( 2023; 2018: ) "Secretory High-Mobility Group Box 1 Protein Affects Regulatory T Cell Differentiation in Neuroblastoma Microenvironment <i>In Vitro</i> Author(s): Vanichapol T, Chiangjong W, Panachan J, Anurathapan U, Chutipongtanate S, Hongeng S PubMed Article URL: http://dx.doi.org/10.1155/2018/7946021

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	25-0259 was used in Flow cytometry/Cell sorting to suggest a role for regulatory T-cells with a pro-inflammatory TH17-like phenotype in Aspergillus-associated immunopathology, and identifies key players, i.e. TLR2 and CTLA4, involved in this mechanism.
Human / Not Cited	Scientific reports (2017; 7:) "Toll-like receptor 2 induced cytotoxic T-lymphocyte-associated protein 4 regulates Aspergillus-induced regulatory T-cells with pro-inflammatory characteristics." Author(s):Raijmakers RPH,Sprenkeler EGG,Aleva FE,Jacobs CWM,Kanneganti TD,Joosten LAB,van de Veerdonk FL, Gresnigt MS PubMed Article URL:http://dx.doi.org/10.1038/s41598-017-11738-4
	25-0259 was used in Flow cytometry/Cell sorting to determine whether loss of Lin28b expression in foetal T cells leads to increased mature let-7, which causes decreased expression of TGF-RI, TGF-RIII, and SMAD2 proteins.
Human / Not Cited	Journal of immunology (Baltimore, Md. : 1950) ( 2016; 197: 4344)  "Lin28b Regulates Fetal Regulatory T Cell Differentiation through Modulation of TGF- Signaling."  Author(s):Bronevetsky Y,Burt TD,McCune JM  PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1601070
	25-0259 was used in Flow cytometry/Cell sorting to provide preclinical evidence for the use of anti-GITR (1) non-depleting antibodies in combination with SRS in GBM.
Mouse / Not Cited	Journal for immunotherapy of cancer ( 2016; 4: ) "Agonist anti-GITR monoclonal antibody and stereotactic radiation induce immune-mediated survival advantage in murine intracranial glioma." Author(s):Patel MA,Kim JE,Theodros D,Tam A,Velarde E,Kochel CM,Francica B,Nirschl TR,Ghasemzadeh A,Mathios D, Harris-Bookman S,Jackson CC,Jackson C,Ye X,Tran PT,Tyler B,Coric V,Selby M,Brem H,Drake CG,Pardoll DM,Lim M PubMed Article URL:http://dx.doi.org/10.1186/s40425-016-0132-2
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to investigate the role of B cells in human breast cancer etiology.
	Oncoimmunology ( 2016; 5: ) "PD-L1 mediated the differentiation of tumor-infiltrating CD19 <sup>+</sup> B lymphocytes and T cells in Invasive breast cancer." Author(s):Guan H,Lan Y,Wan Y,Wang Q,Wang C,Xu L,Chen Y,Liu W,Zhang X,Li Y,Gu Y,Wang Z,Xie F PubMed Article URL:http://dx.doi.org/10.1080/2162402X.2015.1075112
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to perform 24-subset immunophenotyping of peripheral blood mononuclear cells in HLA-DRB1-genotyped rheumatoid arthritis patients and healthy donors.
	Scientific reports (2016; 6:) "Immunophenotyping of rheumatoid arthritis reveals a linkage between HLA-DRB1 genotype, CXCR4 expression on memory CD4(+) T cells, and disease activity." Author(s):Nagafuchi Y,Shoda H,Sumitomo S,Nakachi S,Kato R,Tsuchida Y,Tsuchiya H,Sakurai K,Hanata N,Tateishi S, Kanda H,Ishigaki K,Okada Y,Suzuki A,Kochi Y,Fujio K,Yamamoto K PubMed Article URL:http://dx.doi.org/10.1038/srep29338
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to provide initial evidence that elevated frequencies of Th17 and Th2 cells form part of the immune network instigating the development of severe onchocerciasis.
	PLoS neglected tropical diseases ( 2015; 9: ) "Hyperreactive onchocerciasis is characterized by a combination of Th17-Th2 immune responses and reduced regulatory T cells." Author(s):Katawa G,Layland LE,Debrah AY,von Horn C,Batsa L,Kwarteng A,Arriens S,W Taylor D,Specht S,Hoerauf A, Adjobimey T PubMed Article URL:http://dx.doi.org/10.1371/journal.pntd.0003414
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to investigate the combined mechanism of action of MSCs and hyaluronic acid.
	PloS one ( 2016; 11: )  "A Systematic Study of the Effect of Different Molecular Weights of Hyaluronic Acid on Mesenchymal Stromal Cell-Mediated Immunomodulation."  Author(s):Gómez-Aristizábal A,Kim KP,Viswanathan S  PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0147868
	25-0259 was used in Flow cytometry/Cell sorting to reveal that TIGIT+CD4+T cells provide a supportive microenvironment for CLL cells.
Human / Not Cited	Oncoimmunology ( 2022; 7: ) "TIGIT expressing CD4+T cells represent a tumor-supportive T cell subset in chronic lymphocytic leukemia." Author(s):Catakovic K,Gassner FJ,Ratswohl C,Zaborsky N,Rebhandl S,Schubert M,Steiner M,Gutjahr JC,Pleyer L,Egle A, Hartmann TN,Greil R,Geisberger R PubMed Article URL:http://dx.doi.org/10.1080/2162402X.2017.1371399

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Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to determine levels of CCR5 and CXCR4 expression among CD4(+) and CD8(+) lymphocyte subsets in HIV-infected long-term non-progressors.		
	BMC infectious diseases ( 2014; 14: ) "The number of CCR5 expressing CD4+ T lymphocytes is lower in HIV-infected long-term non-progressors with viral control compared to normal progressors: a cross-sectional study." Author(s):Meijerink H,Indrati AR,van Crevel R,Joosten I,Koenen H,van der Ven AJ PubMed Article URL:http://dx.doi.org/10.1186/s12879-014-0683-0		
Human / Not Cited	25-0259-42 was used in Flow Cytometry to indicate that ILC2s may play a protective role in ESRD.		
	Journal of immunology (Baltimore, Md.: 1950) ( 2020; 205: 36) "Expansion of Group 2 Innate Lymphoid Cells in Patients with End-Stage Renal Disease and Their Clinical Significance." Author(s):Liu GY,Deng XH,Li X,Cao YJ,Xing YF,Zhou P,Lei AH,Yang Q,Deng K,Zhang H,Zhou J PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1901095		
Human / Not Cited	25-0259 was used in Flow cytometry/Cell sorting to show that a nonactivating monovalent anti-CD28 that spares CTLA4 signaling is an effective immunosuppressant in a clinically relevant humanized mouse transplant model.		
	JCI insight ( 2017; 2: )  "Selective blockade of CD28 on human T cells facilitates regulation of alloimmune responses."  Author(s):Zaitsu M,Issa F,Hester J,Vanhove B,Wood KJ  PubMed Article URL:http://dx.doi.org/10.1172/jci.insight.89381		

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