

Antibodies

Anti-Human CD25 Antibody, Clone BC96

Mouse monoclonal IgG1 antibody
against human, rhesus, cynomolgus
CD25, unconjugated

Catalog #60158

100 µg 0.5 mg/mL



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

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Product Description

The BC96 antibody reacts with human CD25, a 55 kDa type I integral transmembrane glycoprotein. CD25 is involved in the activation and proliferation of lymphocytes and can be used in the identification of T cell subsets in viral infections like HIV and HTLV. CD25 is present on activated T and B cells, monocytes, macrophages, and regulatory T cells. Expression of CD25, together with CD4 and FOXP3, is considered a phenotypic signature for regulatory T cells. CD25 has a low affinity for its IL-2 ligand but associates with IL-2 receptor β (CD122) and common γ (CD132) chains to form a high affinity IL-2 receptor.

Target Antigen Name:	CD25
Alternative Names:	IL-2 Receptor alpha chain, IL-2Ra, IL2Ra, Tac, p55
Gene ID:	3559
Species Reactivity:	Human, Rhesus, Cynomolgus, Baboon, Chimpanzee, Pig-tailed Macaque
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	BC96
Isotype:	IgG1, kappa
Immunogen:	CD25 protein of human origin
Conjugate:	Unconjugated

Applications

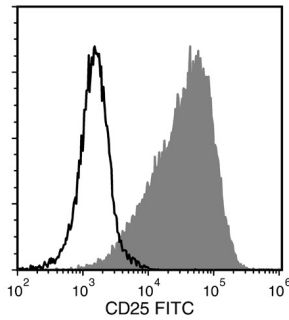
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for analyzing CD25 antigen expression on cultured human T cells activated with ImmunoCult™ Human CD3/CD28 T Cell Activator (Catalog #10971) and ImmunoCult™ Human CD3/CD28/CD2 T Cell Activator (Catalog #10970).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com .
Directions for Use:	For flow cytometry the suggested use of this antibody is $\leq 0.5 \mu\text{g}$ per 1×10^6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of PHA-L-activated human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD25 Antibody, Clone BC96, followed by a rat anti-mouse IgG1 antibody, FITC (filled histogram), or Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21 (Catalog #60070), followed by a rat anti-mouse IgG1 antibody, FITC (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

1. Legorreta-Haquet MV et al. (2016) Function of Treg cells decreased in patients with systemic lupus erythematosus due to the effect of prolactin. *Medicine* 95(5): e2384. (FC)
2. Fuhrman CA et al. (2015) Divergent phenotypes of human regulatory T cells expressing the receptors TIGIT and CD226. *J Immunol* 195(1): 145–55. (FC)
3. Smigielska-Czepiel K et al. (2013) Dual role of miR-21 in CD4+ T-cells: Activation-induced miR-21 supports survival of memory T-cells and regulates CCR7 expression in naive T-cells. *PLoS One* 8(10): 1–10. (FC)
4. Sugiyama D et al. (2013) Anti-CCR4 mAb selectively depletes effector-type FoxP3+CD4+ regulatory T cells, evoking antitumor immune responses in humans. *Proc Natl Acad Sci USA* 110(44): 17945–50. (FC)
5. Ardolino M et al. (2011) DNAM-1 ligand expression on Ag-stimulated T lymphocytes is mediated by ROS-dependent activation of DNA-damage response: Relevance for NK-T cell interaction. *Blood* 117(18): 4778–86. (FC)
6. Dokouhaki P et al. (2010) Adoptive immunotherapy of cancer using ex vivo expanded human $\gamma\delta$ T cells: A new approach. *Cancer Lett* 297(1): 126–36. (FC)
7. Kmiecik M et al. (2009) Human T cells express CD25 and Foxp3 upon activation and exhibit effector/memory phenotypes without any regulatory/suppressor function. *J Transl Med* 7(1): 89. (FC)
8. Schaeue D et al. (2008) T-cell responses to survivin in cancer patients undergoing radiation therapy. *Clin Cancer Res* 14(15): 4883–90. (FC)

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