

Anti-Human CD25 Antibody, Clone BC96, Biotin

Antibodies

Mouse monoclonal IgG1 antibody
against human, rhesus, cynomolgus
CD25, biotin-conjugated



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Catalog #60158BT

100 µg 0.5 mg/mL

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:	Biotin

Applications

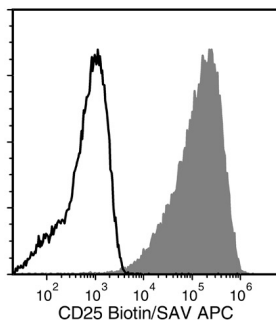
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for analyzing CD25 antigen expression on cultured human T cells activated with ImmunoCult™ Human CD3/CD28 T Cell Activator (Catalog #10971) and ImmunoCult™ Human CD3/CD28/CD2 T Cell Activator (Catalog #10970).

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, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
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, Biotin, followed by streptavidin (SAV) APC (filled histogram), or Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, Biotin (Catalog #60070BT), followed by SAV APC (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

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