TECHNICAL DATA SHEET

Purified Anti-Human CD25 (BC96)

Catalog Number: 70-0259

PRODUCT INFORMATION

Contents: Purified Anti-Human CD25 (BC96)

Isotype: Mouse IgG1, kappa

Concentration: 0.5 mg/mL

Clone: BC96

Reactivity: Human

Formulation: 10 mM NaH_2PO_4, 150 mM NaCl, 0.09% NaN_3, pH7.2

DESCRIPTION

The BC96 antibody is specific for human CD25, a 55 kDa surface protein also known as the Interleukin-2 Receptor alpha chain, or IL-2R alpha. CD25 may bind IL-2 by itself, although with low affinity and without induction of cell signaling. CD25 is also expressed within a high-affinity complex, along with the IL-2R beta chain (CD122) and the common gamma chain (CD132), to form a signaling receptor complex. Signaling via CD25 may modulate Th17 and Treg cell differentiation, and has been shown to play a role in the function of dendritic cells. The BC96 antibody may be used as a marker for expression of CD25 during T and B cell development, on activated mature T and B cells, and for its expression at high levels on natural T regulatory cells (nTreg cells) in the thymus or periphery, and on induced peripheral Tregs. This antibody is cross-reactive with CD25 in several non-human species, including Baboon, Chimpanzee, Cynomolgus and Rhesus.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Willer DO, Ambagala APN, Pilon R, chan JK, Fournier J, Brooks J, Sandstrom P, and MacDonald KS. 2012. J. Virol. 86: 3626-3634. (flow cytometry – cynomolgus)Ruffell B, Au A, Rugo HS, Esserman LJ, Hwang ES, and Coussens LM. 2012. Proc. Natl. Acad. Sci. 109: 2796-2801. (flow cytometry)Mackroth MS, Malhotra I, Mungai P, Koech D, Muchiri E, and King CL. 2011. J. Immunol. 186: 2780-2791. (flow cytometry)Mori T, Miyamoto T, Yoshida H, Asakawa M, Kawasumi M, Kobayashi T, Morioka H, Chiba K, Toyama Y, and Yoshimura A. 2011. Int. Immunol. 23(11):701-712. (Cell sorting / negative selection – T cells)Wan Q, Kozhaya L, ElHed A, Ramesh R, Carlson TJ, Djretic IM, Sundrud MS, and Unutmax D. 2011. J. Exp. Med. 208: 1875-1887. (Cell sorting / negative selection – T cells)Verhoeven D, Sankaran S, Silvey M, and Dandekar S. 2008. J. Virol. 82: 4016-4027. (flow cytometry – Rhesus macaque)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.