

TECHNICAL DATA SHEET

Purified Anti-Mouse IL-2 (JES6-5H4)

Catalog Number: 70-7021

PRODUCT INFORMATION

Contents: Purified Anti-Mouse IL-2 (JES6-5H4)

Isotype: Rat IgG2b, kappa

Concentration: 0.5 mg/mL

Clone: JES6-5H4

Reactivity: Mouse

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, pH7.2

DESCRIPTION

The JES6-5H4 antibody binds to mouse Interleukin-2 (IL-2), a 17 kDa cytokine that is secreted by activated T cells. This cytokine acts as an autocrine stimulatory factor for T cell proliferation, differentiation and survival, as well as being an effective activator of B cells and inducer of NK cell cytotoxic functions. IL-2 plays a key modulatory role in the differentiation of T cells toward either Th17 or T regulatory (Treg) cell types and is important for Treg cell function. The IL-2 receptor (IL-2R) is a complex consisting of an IL-2R alpha chain (CD25), along with the IL-2R beta chain (CD122) and the common gamma chain (CD132). IL-2 may also bind with low affinity to the T cell surface protein CD25 alone, although this interaction does not induce cell signaling. The JES6-5H4 antibody is extensively used for intracellular detection of IL-2 by flow cytometry, for detection of soluble cytokine in ELISA, and as a neutralizing reagent in vitro and in vivo.

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

Attridge K, Wang CJ, Wardzinski L, Kenefeck R, Chamberlain JL, Manzotti C, Kopf M, and Walker LSK. 2012. *Blood*. 119: 4656-4664. (flow cytometry) Helbig C, Gentek R, Backer RA, de Souza Y, Derks IAM, Eldering E, Wagner K, Jankovic D, Gridley T, Moerland PD, Flavell RA, and Amsen D. 2012. *Proc. Natl. Acad. Sci.* 109: 9041-9046. (ELISA - detection) Chen Q, Kiim YC, Laurence A, Punkosdy GA, and Shevach EM. 2011. *J. Immunol.* 186: 6329-6337. (in vivo blocking) Weber KS, Hildner K, Murphy KM and Allen PM. 2010. *J. Immunol.* 185: 2836-2846. (ELISA) Wang C, Morley SC, Donermeyer D, Peng I, Lee WP, Devoss J, Damilenko DM, Lin Z, Zhang J, Zhou J, Allen PM, and Brown EJ. 2010. *J. Immunol.* 185: 7487-7497. (immunocytochemistry/immunofluorescence microscopy) Cardona AE and Teale JM. 2002. *J. Immunol.* 169: 3163-3171. (immunohistochemistry - frozen tissue) Woo AL, Gildea LA, Tack LM, Miller ML, Spicer A, Millhorn DE, Finkelman FD, Dassetz DJ, and Shull GE. 2002. *J. Biol. Chem.* 277: 49036-49046. (in vivo blocking)

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.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.