

TECHNICAL DATA SHEET

Purified Anti-Mouse CD127 (IL-7Ra) (A7R34)

Catalog Number: 70-1271

PRODUCT INFORMATION

Contents: Purified Anti-Mouse CD127 (IL-7Ra) (A7R34)

Isotype: Rat IgG2a, kappa

Concentration: 0.5 mg/mL

Clone: A7R34

Reactivity: Mouse

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

DESCRIPTION

The A7R34 antibody is specific for mouse CD127, a 60-90 kDa cell surface protein also known as the Interleukin-7 Receptor alpha chain, or IL-7R alpha. CD127 is typically expressed at the cell surface as a heterodimer with the common gamma chain (CD132). This complex acts as the functional receptor for IL-7, a cytokine important in T and B cell development, and in mature T cell homeostasis. A second cytokine known as Thymic Stromal Lymphopoietin (TSLP) also binds to a receptor complex of CD127 and the TSLPR chain to trigger activation of dendritic cells, and is involved in B cell development, allergy and autoimmunity. The A7R34 antibody may be used as a phenotypic marker for CD127 on immature B cells, on subsets of thymocytes which are double negative (CD4-CD8-) or single positive (CD4+ or CD8+), and at low levels on mature, peripheral T cells. CD127 is a key marker, when used in combination with CD4 and CD25, to distinguish Treg and effector/memory Treg populations known as T(REM).

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

Thaventhiran JED, Hoffmann A, Magiera L, de la Roche M, Lingel H, Brunner-Weinzierl M, and Fearon DT. 2012. Proc. Natl. Acad. Sci. 10.1073. (flow cytometry). Jin J, Goldschneider I, and Lai L. 2011. J. Immunol. 186: 1915-1922. (in vivo activation) Vondenhoff MF, Greuter M, Goverse G, Elewaut D, Dewint P, Ware CF, Hoorweg K, Kraal G, and Mebius RE. 2009. J. Immunol. 182(9): 5439-5445. (immunofluorescence microscopy – frozen tissue) Leithauser F, Meinhardt-Krajina T, Fink K, Wotschke B, Moller P and Reimann J. 2006. Am. J. Pathol. 168(6): 1898-1909. (immunohistochemistry – frozen tissue) Seddon B and Zamojska R. 2002. J. Immunol. 169: 2997-3005. (in vivo activation) Sudo T, Nishikawa S, Ohno N, Akiyama N, Tamakoshi M, Yoshida H and Nishikawa S-I. 1993. Proc. Natl. Acad. Sci. 90: 9125-9129. (in vitro and in vivo blocking - immunoprecipitation)

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.