TECHNICAL DATA SHEET

In Vivo Ready™ Anti-Mouse CD357 (GITR) (DTA-1)

Catalog Number: 40-5874

PRODUCT INFORMATION

Contents: In Vivo Ready™ Anti-Mouse CD357 (GITR) (DTA-1)

Isotype: Rat IgG2b

Concentration: 2 mg/mL

Clone: DTA-1

Reactivity: Mouse

Formulation: 10 mM NaH2PO4, 150 mM NaCl, pH7.2

Endotoxin Level: Less than or equal to 0.01 EU/ug, as determined by the LaL assay

DESCRIPTION

The DTA-1 antibody reacts with mouse CD357, also known as GITR or AITR (in humans), a 66-70 kDa member of the Tumor Necrosis Factor superfamily (TNFRSF18). GITR is primarily found on T cells, and its function may vary depending on the T cell type where it is expressed. GITR is upregulated on activated T cells where it provides co-stimulation, yet GITR may promote the inhibition of CD4+ CD25+ Treg cells, where it is expressed at high levels. GITR ligand (GITRL) is found on B cells, macrophages, dendritic and endothelial cells, and is implicated in regulating both innate and adaptive immune responses.The DTA-1 antibody may be used for analysis of GITR expression on T cells, and is also commonly used in vitro as an agonistic antibody to induce GITR signaling in various assays.

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

Lee L-F, Logronio K, Tu GH, Zhai W, Ni I, Mei L, Dilley J, Yu J, et al. 2012. Proc. Natl. Acad. Sci. 10.1073. (flow cytometry).Joetham A, Ohnishi H, Okamoto M, Takeda K, Schedel M, Domenico J, Dakhama A, and Gelfand EW. 2012. J. Biol. Chem. 287: 17100-17108. (in vitro activation)Van der Werf N, Redpath SA, Phythian-Adams AT, Azuma M, Allen JE, Maizels RM, Macdonald AS, and Taylor MD. 2011. J. Immunol. 187: 1411-1420. (in vivo activation)Molloy MJ, Zhang W, and Usherwood EJ. 2011. J. Immunol. 186: 6218-6226. (in vivo activation) IIYokoyama T, Matsuda S, Takae Y, Wada N, Nishikawa T, Amagai M, and Koyasu S. 2011. Int. Immunol. 23: 365-373. (Treg depletion – magnetic beads)

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.