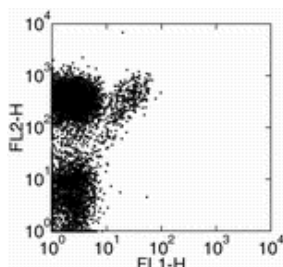


Anti-Mouse gamma delta TCR Purified

Catalog Number: 14-5811

Also Known As: gd TCR, gdTCR, TCRgd

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of mouse lymphnodes with Anti-Mouse gamma/delta TCR FITC and Anti-Mouse CD3e PE (cat. 12-0031). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse gamma delta TCR Purified

REF **Catalog Number:** 14-5811

Clone: UC7-13D5

Concentration: 0.5 mg/ml

Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The UC7-13D5 monoclonal antibody reacts with the mouse $\gamma\delta$ TCR complex. $\gamma\delta$ TCR is expressed by a small subset of T cells in the thymus, peripheral lymphoid tissues, intestinal epithelium, and epidermis. The exact specificity, ligand and function of $\gamma\delta$ TCR-bearing T cells are not yet fully understood; it is suggested that these cells recognize bacterial ligands and some tumor cells in the context of MHC class I-like gene products and play a role in regulation of the immune response and during bacterial infection.

Applications Reported

UC7-13D5 has been reported for use as a phenotypic marker for $\gamma\delta$ TCR-expressing T cells in flow cytometric analysis, immunoprecipitation, *in vitro* functional studies and *in vivo* depletion. (For functional studies, use Functional Grade purified).

Applications Tested

The UC7-13D5 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions and can be used at less than or equal to 0.5 μg per test. A test is defined as the amount (μg) of antibody that will stain a cell sample in a final volume of 100 μL . Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Usami J, Hiromatsu K, Matsumoto Y, Maeda K, Inagaki H, Suzuki T, Yoshikai Y. A protective role of gamma delta T cells in primary infection with *Listeria monocytogenes* in autoimmune non-obese diabetic mice. *Immunology.* 1995 Oct;86(2):199-205. (**UC7-13D5**, FA)

Taguchi, T., W. K. Aicher, et al. Novel function for intestinal intraepithelial lymphocytes. Murine CD3+, gamma/delta TCR+ T cells produce IFN-gamma and IL-5. *J Immunol* 1991 147(11): 3736-44.

Kakkanaiah, V. N., M. Nagarkatti, et al. CD4-CD8- thymocytes from MRL-lpr/lpr mice exhibit abnormal proportions of alpha beta- and gamma delta-TCR+ cells and demonstrate defective responsiveness when activated through the TCR. *Cell Immunol* 1991 137(2): 269-82.

Bluestone, J. A., R. Q. Cron, et al. Repertoire development and ligand specificity of murine TCR gamma delta cells. *Immunol Rev* 1991 120: 5-33.

Related Products

11-4111 Anti-Armenian Hamster IgG FITC

12-0031 Anti-Mouse CD3e PE (145-2C11)
14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

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