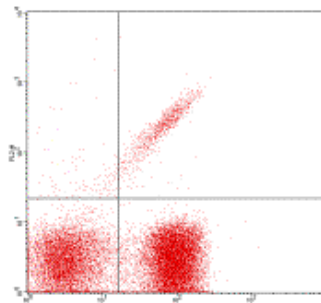


Product Information

Contents: Biotin anti-mouse $\gamma\delta$ TCR
Catalog Number: 13-5811
Sizes: 50 μ g, 100 μ g, 500 μ g
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
DO NOT FREEZE.
Clone: UC7-13D5
Isotype: Armenian Hamster IgG



Mouse (C57BL/6) lymph node cells were stained with biotinylated UC7-13D5 and FITC anti-mouse CD3 (145-2C11, cat.no. 11-0031). The binding of biotinylated UC7-13D5 was detected with Streptavidin-PE (cat.no. 12-4312)

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-5811	FITC anti-mouse gamma delta TCR (gd-TCR, gdTCR)	488	518	FC
12-5811	DISCONTINUED - PE anti-mouse gamma delta TCR (gd-TCR, gdTCR)	488	575	FC
13-5811	Biotin anti-mouse gamma delta TCR (gd-TCR, gdTCR)	N/A	N/A	FC
14-5811	Affinity Purified anti-mouse gamma delta TCR (gd-TCR, gdTCR)	N/A	N/A	FC IP
16-5811	Functional Grade* Purified anti-mouse gamma delta TCR (gd-TCR, gdTCR)	N/A	N/A	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/ μ g.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

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.

Usage

For research use only, not for diagnostic or therapeutic use. UC7-13D5 has been reported for use as a phenotypic marker for $\gamma\delta$ TCR-expressing T cells in flow cytometric analysis.

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 μ g/million cells. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
- Cat. 13-4914 Biotin Golden Syrian Hamster IgG Isotype Control (clone n/a)

References

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

Kakkanaiah, V. N., M. Nagarkatti, et al. (1991). "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 137(2): 269-82.

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