

Product Information

Contents: Fluorescein isothiocyanate (FITC) anti-mouse  $\gamma\delta$  TCR

Catalog Number: 11-5811

Sizes: 50 ug, 100 ug, 500 ug

Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>

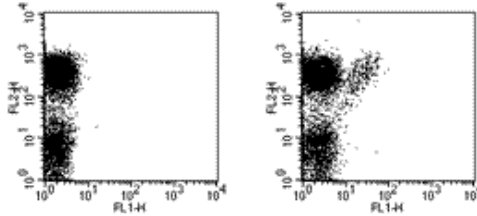
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: UC7-13D5

Isotype: Armenian Hamster IgG



Staining of C57Bl/6 lymph node cell suspension with PE anti-CD3e (cat.12-0031) with staining buffer (autofluorescence) (left) or 0.25  $\mu$ g of FITC UC7-13D5 (right). Total viable cells were used for analysis.

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

Related Products

Cat. 11-4444 FITC Armenian 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.

Copyright © 2000-2005 eBioscience, Inc.  
Product For Research Use Only: Not for further distribution without written consent.

