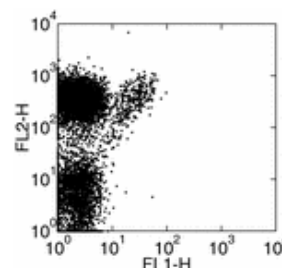


## Product Information

Contents: Affinity Purified anti-mouse  $\gamma\delta$ TCR  
Catalog Number: 14-5811  
Sizes: 50  $\mu$ g, 100  $\mu$ g, 500  $\mu$ g  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
Avoid repeated freeze/thaw cycles.  
Clone: UC7-13D5  
Isotype: Armenian Hamster IgG



*Two-color surface staining of mouse lymphnodes with anti-mouse gamma delta TCR (UC7-13D5) FITC and anti-mouse CD3e (145-2C11) PE. 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, 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  $\mu$ g/million cells. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## Related Products

- Cat. 11-4111 FITC Anti-Armenian Hamster IgG
- Cat. 13-4113 Biotin Anti-Armenian Hamster IgG (clone Polyclonal)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
- Cat. 14-4914 Affinity Purified Golden Syrian Hamster IgG Isotype Control (clone n/a)

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## References

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- 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.