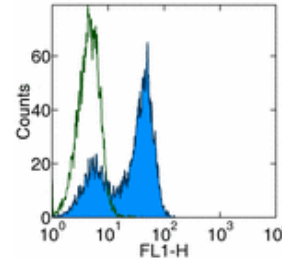


## Product Information

Contents: Biotin H-Y TCR (male antigen HY)  
Catalog Number: 13-9930  
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.  
Clone: T3.70  
Isotype: Mouse IgG1, κ



Surface staining of CD11.3 cells with anti-mouse H-Y TCR (T3.70) FITC. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

## Available Formats of This Product

| Cat. No. | Format  | Excite (nm) | Emit (nm) | Reported Applications |
|----------|---|-------------|-----------|-----------------------|
| 11-9930  | FITC anti- H-Y TCR (male antigen HY)              | 488         | 518       | FC                    |
| 12-9930  | PE anti- H-Y TCR (male antigen HY)                | 488         | 575       | FC                    |
| 13-9930  | Biotin anti- H-Y TCR (male antigen HY)            | N/A         | N/A       | FC                    |
| 14-9930  | Affinity Purified anti- H-Y TCR (male antigen HY) | N/A         | N/A       | FC                    |

## Description

The T3.70 monoclonal antibody reacts with the transgenic αβTCR that recognizes the male antigen H-Y in the context of H-2D<sup>b</sup>. A large fraction of T cells in H-Y TCR transgenic mouse expresses this receptor. The H-Y TCR transgenic mouse has been used extensively to study T cell development and the role of thymic major histocompatibility complex in CD4<sup>+</sup> and CD8<sup>+</sup> T cell differentiation.

## Usage

For research use only, not for diagnostic or therapeutic use. The T3.70 antibody has been reported for use in flow cytometric analysis.

## Applications Tested

The T3.70 antibody has been tested by flow cytometric analysis of CD11.3 line, which is derived from a thymic tumor of the H-Y TCR transgenic mice and expresses the transgenic H-Y TCR. This can be used at less than or equal to 0.125 μg per million cells in a 100 μl total staining volume. 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. 13-4714 Biotin Mouse IgG1, K Isotype Control  
Cat. 11-9930 FITC anti- H-Y TCR (male antigen HY) (clone T3.70)  
Cat. 12-9930 PE anti- H-Y TCR (male antigen HY) (clone T3.70)  
Cat. 14-9930 Affinity Purified anti- H-Y TCR (male antigen HY) (clone T3.70)

## References

Teh, H. S., H. Kishi, et al. (1990). "Early deletion and late positive selection of T cells expressing a male-specific receptor in T-cell

receptor transgenic mice." *Dev Immunol* 1(1): 1-10.

Teh, H. S., H. Kishi, et al. (1989). "Deletion of autospecific T cells in T cell receptor (TCR) transgenic mice spares cells with normal TCR levels and low levels of CD8 molecules." *J Exp Med* 169(3): 795-806.

Teh, H. S., P. Kisielow, et al. (1988). "Thymic major histocompatibility complex antigens and the alpha beta T-cell receptor determine the CD4/CD8 phenotype of T cells." *Nature* 335(6187): 229-33.

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