

## Product Information

Contents: Phycoerythrin (PE) H-Y TCR (male antigen HY)

Catalog Number: 12-9930

Sizes: 50 ug, 100 ug, 200 ug

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

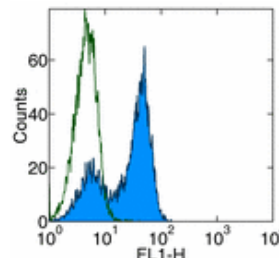
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: 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. 12-4714 Phycoerythrin (PE) Mouse IgG1, K Isotype Control
- Cat. 11-9930 FITC anti- H-Y TCR (male antigen HY) (clone T3.70)
- Cat. 13-9930 Biotin 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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