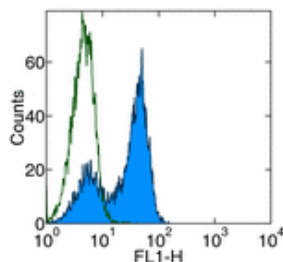


## Anti-Mouse H-Y TCR (male antigen) Purified

Catalog Number: 14-9930

Also Known As: male antigen HY

RUO: For Research Use Only



Surface staining of CD11.3 cell line with Anti-Mouse H-Y TCR (male antigen) FITC. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

### Product Information

Contents: Anti-Mouse H-Y TCR (male antigen) Purified


**REF** Catalog Number: 14-9930

Clone: T3.70

Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1,  $\kappa$

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The T3.70 monoclonal antibody reacts with the transgenic  $\alpha\beta$ TCR 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.

### Applications Reported

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 0.5  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### 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.

### Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified

17-4317 Streptavidin APC

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