full spectrum cell analysis®
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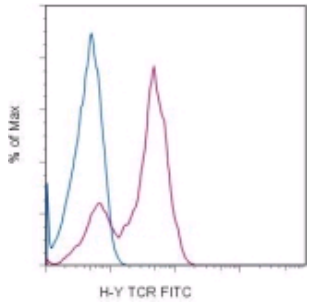
Anti-Mouse H-Y TCR (male antigen) FITC

Catalog Number: 11-9930
Also Known As:male antigen HY
RUO: For Research Use Only



The CD11.3 cell line was stained with 0.125 µg of Mouse IgG1 κ Isotype Control FITC (cat. 11-4714) (blue histogram) or 0.125 µg of Anti-Mouse H-Y TCR (male antigen) FITC (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse H-Y TCR (male antigen) FITC
REF Catalog Number: 11-9930
Clone: T3.70
Concentration: 0.5 mg/ml
Host/Isotype: Mouse IgG1, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The T3.70 monoclonal antibody reacts with the transgenic αβTCR that recognizes the male antigen H-Y in the context of H-2D^{b}. 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^{+} and CD8^{+} 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 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^{5} to 10^{8} 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

11-4714 Mouse IgG1 K Isotype Control FITC

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