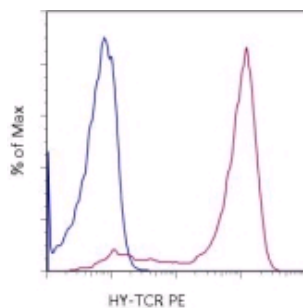


Anti-Mouse H-Y TCR (male antigen) PE

Catalog Number: 12-9930

Also Known As: male antigen HY

RUO: For Research Use Only



Staining of the CD11.3 cell line with Mouse IgG1 κ Isotype Control PE (cat. 12-4714) (blue histogram) or Anti-Mouse H-Y TCR (male antigen) PE (purple histogram). Total viable cells were used for analysis.

Product Information

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


REF Catalog Number: 12-9930

Clone: T3.70

Concentration: 0.2 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 $\alpha\beta$ TCR 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 0.125 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ 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

12-4714 Mouse IgG1 K Isotype Control PE

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