

TCR H-Y (male antigen) Monoclonal Antibody (T3.70), PE, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	T3.70
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466267

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	1 Publication

Product Specific Information

Description: The T3.70 monoclonal antibody reacts with the transgenic alpha betaTCR 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.

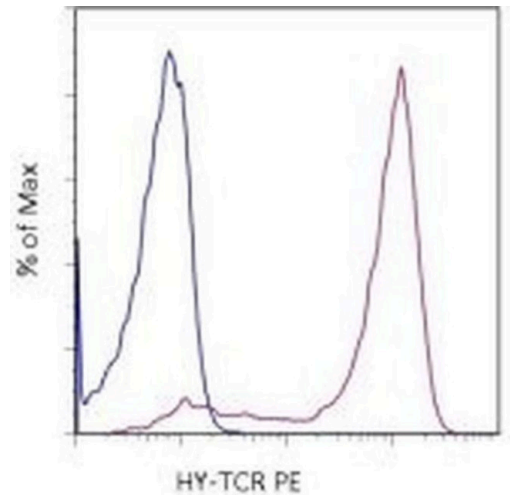
Applications Reported: The T3.70 antibody has been reported for use in flow cytometric analysis.

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 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For TCR H-Y (male antigen) Monoclonal Antibody (T3.70), PE, eBioscience™



TCR H-Y (male antigen) Antibody (12-9930-81) in Flow
Staining of the CD11.3 cell line with Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Mouse H-Y TCR (male antigen) PE (purple histogram). Total viable cells were used for analysis.

1 Reference

Flow Cytometry (1)

European journal of immunology	Year 2009
IL-15 is critical for the maintenance and innate functions of self-specific CD8(+) T cells.	Species Mouse
"12-9930 was used in Flow cytometry/Cell sorting to study the role of memory phenotype CD8+ cells in host defence mechanisms and their origin and antigen specificity."	
Authors: Itsumi M,Yoshikai Y,Yamada H	

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