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Datasheet for 200-B02-N92

TCRbeta Fluorescein Antibody

Overview

Description:	Anti-TCRbeta (Armenian Hamster) Fluorescein Conjugated Monoclonal Antibody - 200-B02-N92
Item No.:	200-B02-N92
Size:	500 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Hamster Armenian

Product Details

Background:	The H57-597 antibody is specific for the beta chain of the mouse T cell Receptor (TCR). This cell surface protein combines with a second protein chain (alpha chain) to form the alpha-beta TCR that is expressed by NK1.1+ thymocytes, NKT cells, and the majority of peripheral T cells. A small number of T cells may express an alternative heteromer of gamma and delta protein chains, known as the gamma-delta TCR. These receptors participate in a complex with CD3, and with the co-receptors CD4 or CD8, to recognize and respond to antigens bound to MHC molecules on antigen-presenting cells. Such interactions promote T cell receptor signaling (T cell activation) and can result in a number of cellular responses including proliferation, differentiation, production of cytokines or activation-induced cell death. The H57-597 antibody is used as a phenotypic marker for T cells expressing the alpha-beta TCR. It is also widely used to cross-link surface TCR and thereby mimic TCR-mediated cell activation or induction of apoptosis. The antibody does not cross-react with cells expressing the gamma-delta TCR.
Synonyms:	Tib, TCRbeta, T cell receptor beta chain, Tcrb
Host Species:	Hamster Armenian
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	H57-597
Format:	IgG
F/P Ratio:	2-8

Target Details

Gene Name:	Tcrb
Reactivity:	Mouse
Immunogen:	Anti-TCRbeta Antibody (Monoclonal) was produced by repeated immunizations with TCRbeta antigen.
Purity/Specificity:	Fluorescein conjugated TCRbeta Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse TCRbeta. Cross reactivity with TCRbeta from other sources has not been tested. Anti-TCRbeta is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• GeneID - 21577

Application Details

Tested Applications:	FC
Application Note:	Anti-TCR beta is tested for FLOW and useful for Immunofluorescence and Immunoprecipitation using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	10 µL/10^6 cells (0.1 µg)
IF:	User Optimized
IP:	User Optimized

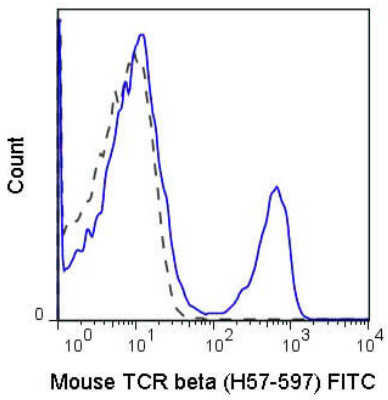
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.5mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of anti-TCRbeta Fluorescein Conjugated Monoclonal Antibody. Cells: C57BL/6 splenocytes. Stimulation: none. Antibody: (Black Line) FITC Armenian Hamster IgG isotype control; (Blue Line) Fluorescein Anti-TCRbeta antibody.

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