

Datasheet for ABIN2689917  
**anti-TCR beta antibody**

15 Publications



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## Overview

Quantity:	0.5 mg
Target:	TCR beta
Reactivity:	Mouse
Host:	Armenian Hamster
Clonality:	Monoclonal
Conjugate:	This TCR beta antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Cytotoxicity Test (CyTox)

## Product Details

Brand:	BD Pharmingen™
Immunogen:	TCR affinity-purified from mouse T-cell hybridoma DO-11.10
Clone:	H57
Isotype:	IgG2 lambda
Characteristics:	The H57-597 antibody reacts with a common epitope of the $\beta$ chain of the T-cell Receptor (TCR) complex on $\alpha\beta$ TCR-expressing thymocytes and peripheral T lymphocytes and NK1.1+ thymocytes and NK-T cells of all mouse strains tested. It does not react with $\gamma\delta$ TCR-bearing T cells. In the fetal and adult thymus, the TCR $\beta$ chain may form homodimers or pair with the pre-TCR $\alpha$ chain on the surface of immature thymocytes before expression of the TCR $\alpha$ chain. Plate-bound or soluble H57-597 antibody activates $\alpha\beta$ TCR-bearing T cells, and plate-bound mAb can

## Product Details

induce apoptotic death. This antibody is routinely tested by flow cytometric analysis. Other applications were tested during antibody development only or reported in the literature.

BD Pharmingen™ Purified Hamster Anti-Mouse TCR β Chain - Purified - Clone H57-597 - Isotype Armenian Hamster IgG2, λ1 - Reactivity Ms - 0.5 mg

Purification: The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

Target: TCR beta

Alternative Name: TCR beta Chain ([TCR beta Products](#))

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Concentration: 0.5 mg/mL

Buffer: Aqueous buffered solution containing ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Store undiluted at 4°C.

## Publications

Product cited in: Saint-Ruf, Panigada, Azogui, Debey, von Boehmer, Grassi: "Different initiation of pre-TCR and gammadeltaTCR signalling." in: **Nature**, Vol. 406, Issue 6795, pp. 524-7, (2000) ([PubMed](#)).

Vicari, Zlotnik: "Mouse NK1.1+ T cells: a new family of T cells." in: **Immunology today**, Vol. 17, Issue 2, pp. 71-6, (1996) ([PubMed](#)).

Wagner, Hagman, Linsley, Hodsdon, Freed, Newell: "Rescue of thymocytes from glucocorticoid-induced cell death mediated by CD28/CTLA-4 costimulatory interactions with B7-1/B7-2." in:

**The Journal of experimental medicine**, Vol. 184, Issue 5, pp. 1631-8, (1996) ([PubMed](#)).

Atsuta, Nishimura, Nakamura, Emoto, Iwatsuki, Yoshikai: "Diversity of V gamma gene segments rearranged to the J gamma 4 gene in mice." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 154, Issue 2, pp. 676-84, (1995) ([PubMed](#)).

Davenport, Kumar, Bennett: "Rapid rejection of H2k and H2k/b bone marrow cell grafts by CD8+ T cells and NK cells in irradiated mice." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 155, Issue 8, pp. 3742-9, (1995) ([PubMed](#)).

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