Datasheet for ABIN1177302

# anti-TCR beta antibody

13 Publications

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## Overview

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| Quantity: | 0.5 mg |
| Target: | TCR beta |
| Reactivity: | Mouse |
| Host: | Armenian Hamster |
| Clonality: | Monoclonal |
| Application: | Flow Cytometry (FACS), Immunoprecipitation (IP), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)) |

## Product Details

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| Brand: | BD Pharmingen™ |
| Immunogen: | TCR affinity-purified from mouse T-cell hybridoma DO-11.10 |
| Clone: | H57-597 |
| Isotype: | IgG2 lambda |
| Purification: | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. |
| Sterility: | 0.2 µm filtered |
| Endotoxin Level: | Endotoxin level is ≤ 0.01 EU/µg (≤ 0.001 ng/µg) of protein as determined by the LAL assay. |

## Target Details

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| Target: | TCR beta |

## Target Details

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| Abstract: | TCR beta Products |
| Background: | The H57-597 antibody reacts with a common epitope of the beta chain of the T-cell Receptor (TCR) complex on alphabeta 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 gammadelta 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 alphabeta TCR-bearing T cells, and plate-bound mAb can induce apoptotic death. |

## Application Details

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| Application Notes: | Flow cytometry: It has been observed that pre-incubation of thymus cell suspensions at 37°C for 2-4 hours prior to staining enhances the ability of anti-CD3e and anti-TCR beta chain mAbs to detect the T cell receptor on immature thymocytes. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 1.0 mg/mL |
| Buffer: | No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. |
| Preservative: | Azide free |
| Storage: | 4 °C |
| Storage Comment: | Store undiluted at 4°C. This preparation contains no preservatives, thus it should be handled under aseptic conditions. |

## Publications

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|---|---|
| Product cited in: | Traver, Akashi, Manz, Merad, Miyamoto, Engleman, Weissman: "Development of CD8alpha-positive dendritic cells from a common myeloid progenitor." in: **Science (New York, N.Y.)**, Vol. 290, Issue 5499, pp. 2152-4, (2000) (PubMed).<br><br>Sydora, Brossay, Hagenbaugh, Kronenberg, Cheroutre: "TAP-independent selection of CD8+ intestinal intraepithelial lymphocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. |

156, Issue 11, pp. 4209-16, (1996) (PubMed).

Wang, Klein: "Thymus-neuroendocrine interactions in extrathymic T cell development." in: **Science (New York, N.Y.)**, Vol. 265, Issue 5180, pp. 1860-2, (1994) (PubMed).

Lefrançois: "Extrathymic differentiation of intraepithelial lymphocytes: generation of a separate and unequal T-cell repertoire?" in: **Immunology today**, Vol. 12, Issue 12, pp. 436-8, (1992) ( PubMed).

Vremec, Zorbas, Scollay, Saunders, Ardavin, Wu, Shortman: "The surface phenotype of dendritic cells purified from mouse thymus and spleen: investigation of the CD8 expression by a subpopulation of dendritic cells." in: **The Journal of experimental medicine**, Vol. 176, Issue 1, pp. 47-58, (1992) (PubMed).

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