

PERFORMANCE DATA SHEET
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Monoclonal anti-human TCR V β 3/Biotin*

mAb name/Clone: JOVI-3

Isotype: Mouse IgG2a

Immunogen: Human HA1.7 TCR β chain expressed on transgenic mouse cells

CATALOG#: 102-030

QUANTITY: 100 μ g

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human T cell receptor (TCR) is a T cell surface expressed heterodimer of α/β or γ/δ chains. TCR's recognize antigen peptides bound to MHC molecules forming the basis of antigen specific response by T cells.

Antibody JOVI-3 is specific for the human V β 3 TCR gene product and reacts with 1-10% of T cells in normal human blood. Antibody JOVI-3 is mitogenic for T cells expressing TCR V β 3.

References: J.L. Viney, et al, (1992) Hybridoma **11**: 701-713. A. Weiss, (1993) Cell **73**: 209-212. M.M. Daris, (1995) Nature **375**: 104. S. Valitutti, et al, (1995) Nature **375**: 148-151.

STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/thawing not recommended.

PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10⁵ CH7C17 tumor cells (HA1.7 V β 3+ transfectant) were washed and incubated 45 minutes on ice with 80 μ l of anti-TCR V β 3/Biotin at 5 μ g/ml. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-PE, after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.73 log₁₀ fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml anti-TCR V β 3 antibody (Catalog #102-020).

**This Product is intended for Laboratory Research use only.*

Binding of anti-TCR V β 3/Biotin +SA/PE to human CH7C17 (V β 3 transfectants)

