

PERFORMANCE DATA SHEET

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Monoclonal anti-human TCR V beta 3/R-PE*

mAb name/Clone: JOVI-3

Isotype: Mouse IgG2a

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

CATALOG#: 102-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrate stock per 5×10^5 -cell test)

INFORMATION: Human T cell receptor (TCR) is a T cell surface expressed heterodimer of a/b or g/d 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 beta 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 beta 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. Do not freeze. Protect from light.

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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% Na₃N (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at approximately **0.5 mg/ml** with an A₅₆₅/A₂₈₀ ratio of 3.01.

PERFORMANCE: Five x 10⁵ cultured **CH7C17** tumor cells (HA1.7 Vb3+ transfectant) were washed and incubated 45 minutes on ice with 80 µl of anti-TCR Vβ3/PE at a 1:50 dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.86 log₁₀** fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050). Binding was blocked when cells were pre incubated with an excess of unlabeled anti- TCR Vβ3 antibody (cat #102-020).

**Research Use Only. Not for use in Diagnostic procedures.*

Binding of anti-TCR Vb3/PE to human CH7C17 (Vb3 transfectant)

