

**PERFORMANCE DATA SHEET**

2614

**Monoclonal anti-human TCR Vβ3/FITC\***

**mAb name/Clone:** JOVI-3

**Isotype:** Mouse IgG2aλ

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

**CATALOG#:** 102-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6μl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**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 Vβ3 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 Vβ3.

**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 is not recommended. Protect from light.

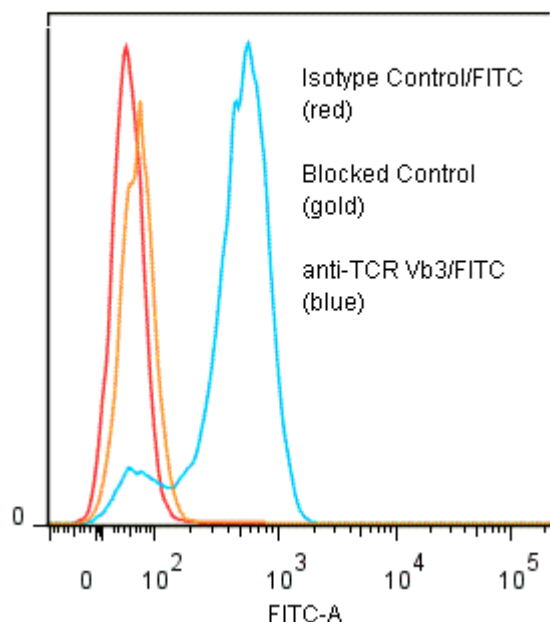
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from hollow fiber bioreactor EC was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at approximately **0.5 mg/ml** with a Fluorescein/IgG molar ratio of 6.0.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **CH7C17** tumor cells (HA1.7 Vβ3+ transfectant) were washed and incubated 45 minutes on ice with 80 μl of anti-TCR Vβ3 at a **1:50** dilution (10μg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.0 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog# 281-040). Binding was blocked when cells were pre incubated with 20 μl of 0.5mg/ml unlabeled anti-TCR Vβ3 mAb (catalog #102-020).

**Blinding of anti-TCR Vb3/FITC to CH7C17 cells**



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