

PERFORMANCE DATA SHEET

2915

Monoclonal anti-human TCR C beta 1/R-PE*

mAb name/Clone: JOVI-1

Isotype: Mouse IgG2a

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

CATALOG#: 101-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrate stock per 5x10⁵-cell test)

INFORMATION: Human T cell receptor (TCR) is a T cell surface expressed heterodimer of alpha/beta or gamma/delta chains. TCR's recognize antigen peptides bound to MHC molecules forming the basis of antigen specific response by T cells. Antibody JOVI-1 recognizes human C beta 1 TCR gene product and reacts with 50-75% of T cells in normal human blood. Antibody JOVI-1 is mitogenic for T cells expressing TCR C beta 1.

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.**

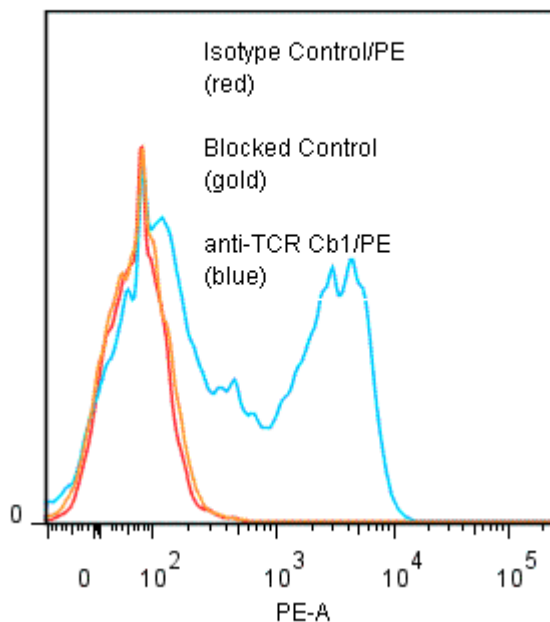
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (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 **0.5 mg/ml** with a OD_{565/280} ratio of 2.8.

PERFORMANCE: Five x 10⁵ ficoll prepared human peripheral blood mononuclear cells were washed and pre incubated 45 minutes on ice with 20 ul of 300 ug/ml human IgG (to reduce non specific binding) after which they were incubated with 80 ul of anti-TCR Cβ1 at a 1:50 (10 µg/ml) dilution. Cells were washed three times, fixed and analyzed by FACS using a lymphoid gate. A 50% subpopulation of the cells stained positive with a mean shift of 1.60 log₁₀ fluorescent units when compared to a Mouse IgG2a/R-PE isotype control (Catalog #281-050). Binding was blocked when cells were pre incubated with 20 ul of 0.5 mg/ml anti-TCR Cβ1 antibody (Cat# 101-050).

Binding of anti-TCR Cb1/PE to human PBL



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