

PERFORMANCE DATA SHEET

3443

Monoclonal anti-human TCR C β 1*

mAb name/Clone: JOVI-1

Isotype: Mouse IgG2a

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

CATALOG#: 101-020

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-1 recognizes human C β 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 β 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 - 8°C. Freeze/Thawing is not recommended.

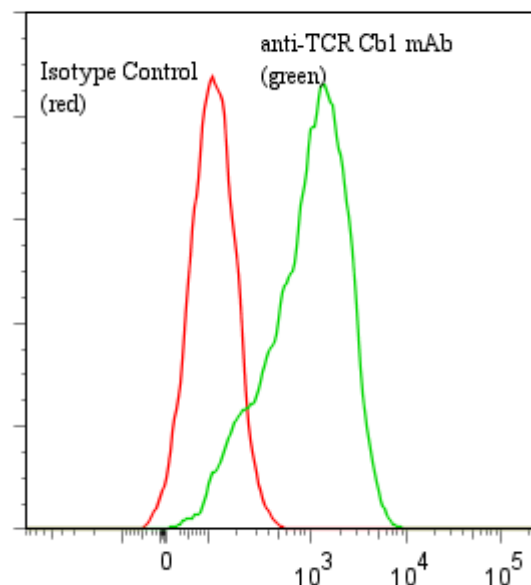
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five x 10⁵ cultured Jurkat cells were washed and incubated 45 minutes on ice with 80 μ l of anti-TCR C β 1 at 5 μ g/ml. Cells were washed twice and incubated with 2^o reagent Goat-anti-Mouse Ig/FITC (cat #232-010), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.03 log₁₀ fluorescent units when compared to a Mouse IgG2a negative control (Catalog #281-010).

Binding of anti-TCR C β 1 mAb +GAM/FITC to human Jurkat cells



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