PERFORMANCE DATA SHEET

2648

Monoclonal anti-human TCR Cβ/Biotin*



mAb name/Clone: JOVI-1 *Isotype:* Mouse IgG2aκ

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

CATALOG#: 101-030 QUANTITY: 100 µg

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 Cβ1 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 Cβ1.

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^oC*. Freeze/thawing not recommended.

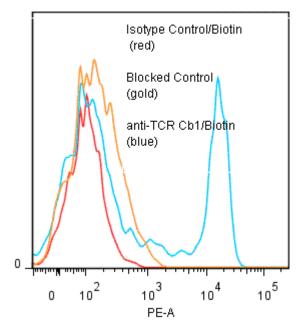
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

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 10^5 ficoll prepared human **PBMC** were washed and pre incubated 10 minutes with 20 ul of 300ug/ml human IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 μl anti-TCR Cβ1/Biotin at **5** μg/ml. Cells were washed twice and incubated with 50 μl of 2^0 reagent SA/PE after which they were washed three times, fixed and analyzed by FACS. A **34% sub population** of the cells stained positive with a mean shift of **2.09** 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 μl of 0.5 mg/ml anti-TCR Cβ1 antibody (Catalog #101-020).

Binding of anti-TCR Cb1/Biotin +SA/PE to human PBL



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^{*} Research Use Only. Not for use in Diagnostic procedures..