

Mouse anti-Human TCR Cbeta1 Monoclonal Antibody | anti-TCR antibody

Monoclonal anti-human TCR Cbeta1/APC

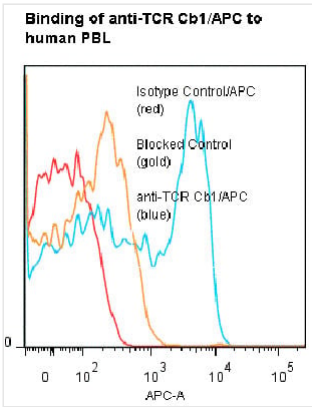
CATALOG # AAA78198	HOST Mouse	REACTIVITY Human
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PRODUCT SYNONYMS

TCR Cbeta1; Monoclonal Antibody; Monoclonal anti-human TCR Cbeta1/APC; anti-TCR Cbeta1; anti-human TCR C beta 1; TCRCb1; TRBC1; TRBC-1; anti-TCR antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Clone Number	Jovi-1
Specificity	Antibody JOVI-1 recognizes human C beta 1 TCR gene product and reacts with 50-75% of T cells in normal human blood (1). JOVI-1 does not bind to TCR C beta 2 (5).
Form/Format	50mM Sodium Phosphate pH 7.5, 500mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2%BSA, 0.04% NaN3 (as a preservative).
Concentration	Volume in Vial: 0.2 ml (varies by lot)
Immunogen	Human HA1.7 TCR beta chain expressed on transgenic mouse cells
Production	Protein A purified antibody from tissue culture supernatant was conjugated to cross-linked Allophycocyanin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at approximately 0.25mg/ml with an A650/A280 ratio of 2.06.
Performance	Five x 10 ⁵ ficoll prepared human peripheral blood mononuclear cells were washed and preincubated 45 minutes on ice with 20ul of 300ug/ml human IgG (to reduce non specific binding) after which they were incubated with 80ul of anti-TCR Cbeta1/APC at a 1:50 dilution (5ug/ml). Cells were washed three times, fixed and analyzed by FACS using a lymphoid gate. A 44% subpopulation of the cells stained positive with a mean shift of 1.99 log ₁₀ fluorescent units when compared to a Mouse IgG2a/APC isotype control (#). Binding was blocked when cells were preincubated with 20ul of 0.5mg/ml anti-TCR Cbeta1 antibody (#).
Preparation and Storage	Store at 2-5 degree C. Do not freeze! Protect from light. Product should retain activity for at least 12 months after shipping date when stored as recommended.



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-TCR antibody	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 (3, 4). Antibody JOVI-1 is mitogenic for T cells expressing TCR C beta 1.
References	1. J.L. Viney, et al, (1992) Hybridoma 11: 701-713. PMID: 1284120 2. A. Weiss, (1993) Cell 73: 209-212. 3. M.M. Daris, (1995) Nature 375: 104. 4. S. Valitutti, et al, (1995) Nature 375: 148-151.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/tcr-cbeta1-antibody-clone-jovi-1-elisa/78198>