Anti-Human TCR Cβ 1 (JOVI-1)

	REF	Σ	
FITC	JOVIF	100 test	RUO
Dy-634	JOVIDY634	100 test	
PE-Cyanine7	JOVIPC7	50 test	

1. PRODUCT DESCRIPTION

- **Clone:** JOVI-1;
- **Isotype**: Mouse IgG2a, kappa;
- **Tested application**: flow cytometry;
- **Immunogen**: The anti-Human TCR Cβ derives from HAI.7 TCR β chain expressed on transgenic mouse cells;
- **Species reactivity**: Human;
- **Storage instruction:** store in the dark at 2-8 °C;
- **Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN_3);
- **Recommended usage**: Immunostep's TCR Cβ , clone JOVI-1 is a monoclonal antibody used in flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10^6 cells;
- **Presentation**: liquid;
- **Source**: Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- **Purification**: Affinity chromatography;
- **Other names**: T Cell Receptor beta; TCRB; TRB; TRB@; TCR VB3-CB1;
- **Gene ID:** 28639.
- **Molecular weight:** 34 kDa.

2. ANTIGEN DETAILS

Large description: The JOVI.1 monoclonal antibody recognizes an epitope common to a large proportion of human CD4+ or CD8+ T lymphocytes that express the T cell receptor beta chain (TCRβ).

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.[1-4]

3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

Please, refer to www.immunostep.com technical support for more information.

5. REFERENCES

1. Viney JL, Prosser HM, Hewitt CR, Lamb JR, Owen MJ. Generation of monoclonal antibodies against a human T cell receptor beta chain expressed in transgenic mice. Hybridoma. 1992 Dec;11(6):701-13. doi: 10.1089/hyb.1992.11.701. PMID: 1284120.
2. Gil D, Schamel WWA, Montoya M, Sanchez-Madrid F, and Alarcon B. Recruitment of Nck by CD3-epsilon reveals a ligand-induced conformational change essential for T cell receptor signaling and synapse formation. Cell. 2002; 109(7):901-912.
3. Okada, C.Y., et al. 1990. Characterization of a rat monoclonal antibody specific for a determinant encoded by the V β 7 gene segment. Depletion of V β 7+ T cells in mice with Mls-1a haplotype. J. Immunol. 144: 3473-3477.
4. Amsen, D. and Kruisbeek, A.M. 1999. Thymocyte selection: not by TCR alone. Immunol. Rev. 165: 209-229.
5. Noemí Muñoz-García et al. Anti-TRBC1 Antibody-Based Flow Cytometric Detection of T-Cell Clonality: Standardization of Sample Preparation and Diagnostic Implementation. Cancers. 2021, 13(17), 4379.

6. EXPLANATION OF SYMBOLS

	Fluorochrome
REF	Product reference
Σ	Content for <n> analysis
	Regulatory Status
RUO	Research Use Only
	Manufacturer

7. MANUFACTURED BY:

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