

IOTest Anti-TCR V β 13.6-PE

PN B07225 – 1 mL – Liquid – 20 μ L/test – Clone JU74.3

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

Human variable β 13.6 of the T-cell receptor called TCRBV13S6 according to the nomenclature from Wei et al (1) also referred to as TRBV6-6 (based on the IMGT gene nomenclature) (2, 3). This antibody recognizes only one member of the V β 13 family (IGR B16 sequence) (4).

JU74 has been characterized by cell sorting on PBL using this monoclonal antibody, followed by molecular biological analysis of the sorted cells (5).

Analysis of TcR α chain mRNA by PCR, using a panel of specific oligonucleotides, shows transcripts for most V α sequences.

Analysis of β chain mRNA by anchored-PCR and sequencing only shows transcripts for IGRB16 sequence.

The specificity of this antibody has been confirmed at the the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995 (6).

REAGENT

IOTest Anti-TCR V β 13.6-PE

Conjugated antibody

PN B07225 - 1 mL - Liquid - 20 μ L/test

Clone	JU74.3
Isotype	IgG1, Mouse
Immunogen	3025 Human T-cell clone
Hybridoma	NS1 x balb/c
Source	Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification	Affinity chromatography
Conjugation	R Phycoerythrin (PE)
Molar Ratio	PE / Ig : 0.5 - 1.5
Fluorescence	Excites at 488 nm Emits at 575 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

STATEMENTS OF WARNING

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES

1. Wei, S., Charmley, P., Robinson, M.A., Concannon, P., "The extent of the human germline T-cell receptor V beta gene segment repertoire", 1994, Immunogenetics, 40, 27-36.
2. Lefranc, M.P., Giudicelli, V., Ginestoux, C., Bodmer, J., Muller, W., Bontrop, R., Lemaitre, M., Malik, A., Barbie, V., Chaume D., "IMGT, the international ImMunoGeneTics database", 1999, Nucleic Acids Res., 27, 209-212.

3. Lefranc, M.P., "IMGT, the international ImMunoGeneTics database", 2003, Nucleic Acids Res., 31, 307-310.
4. Ferradini, L. Roman-Roman, S., Azocar, J., Michalaki, H., Triebel, F., Hercend, T., "Studies on the human TcR $\alpha\beta$ variable region genes. II. Identification of our additional V β subfamilies", 1991, Eur. J. Immunol., 21, 935-942.
5. Diu, A., Romagné, F., Genevée, C., Rocher, C., Bruneau, J.M., David, A., Praz, F., Hercend, T., "Fine specificity of monoclonal antibodies directed at human T cell receptor variable regions: comparison with oligonucleotide driven amplification for evaluation of V β expression", 1993, Eur. J. Immunol., 23, 1422-1429.
6. Posnett, D.N., Romagné, F., Necker, A., Kotzin, B.L., Sekaly, R.-P., "First Human TcR Monoclonal Antibody Workshop", 1996, The Immunologist, 4, 5-8.

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