IOTest Anti-TCR Vβ22-FITC

PN IM1484 – 1 mL – Liquid – 20 µL/test – Clone IMMU 546

Analyte Specific Reagent.
Analytical and performance characteristics are not established.

SPECIFICITY

Human variable β22 of human T-cell receptor also called TCRBV22S1 according to the nomenclature from Wei et al (1). This sequence is also referred to as TRBV2 (based on the IMGT gene nomenclature) (2, 3).
Vβ22 is a subfamily of the T cell receptor. The IMMU 546 antibody recognizes the IGRb03 sequence (4). Another gene has been described for this family which differs by only one amino acid and may represent an allelic variant (5). Recognition of this sequence is likely but has not been formally proven yet.
The specificity of this antibody has been confirmed at the first Human TcR Monoclonal Antibody Workshop in San Francisco in 1995 (6).

REAGENT

IOTest Anti-TCR Vβ22-FITC
Conjugated antibody
PN IM1484 - 1 mL - Liquid - 20 µL/test

Clone	IMMU 546
Isotype	IgG1, Mouse
Immunogen	Murine T-cell hybridoma transfected with human Vβ22 gene segment
Hybridoma	X63 x balb/c
Source	Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification	Affinity chromatography
Conjugation	Fluorescein isothiocyanate (FITC)
Molar Ratio	FITC / Ig : 4 - 7
Fluorescence	Excites at 488 nm Emits at 525 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 four additional V beta subfamilies", 1991, Eur. J. Immunol., 21, 935-942.
5. Robinson, M.A., "The human TCR beta chain gene complex contains at least 57 variable gene segments", 1991, J. Immunol., 146, 4392-4397.
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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