IOTest Anti-TCR Vβ4-PE

PN IM3602 – 1 mL – Liquid – 20 µL/test – Clone WJF24

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

SPECIFICITY
Human variable ß4 chain of the T-cell receptor (Vß4), called TCRBV4 according to the nomenclature from Wei et al. (1) and also referred to as TRBV29-1 (based on the IMGT gene nomenclature) (2, 3).
The monoclonal antibody WJF4 recognizes the Vß4 allele product (DT110 cDNA) (4).

REAGENT
IOTest Anti-TCR Vβ4-PE
Conjugated antibody
PN IM3602 - 1 mL - Liquid - 20 µL/test

Clone	WJF24
Isotype	IgM, Rat
Immunogen	RBL rat cell line transfected with human TCR-Vβ4 gene
Hybridoma	X63Ag8653 x balb/c
Source	Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification	Gel filtration
Conjugation	R Phycoerythrin (PE)
Molar Ratio	PE / Ig : >1
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. Kimura, N., Toyonaga, B., Yoshikai, Y., Du, R.P., Mak, T.W., “Sequences and repertoire of the human T-cell receptor α and β chain variable region genes in thymocytes, 1987, Eur. J. Immunol., 17, 375-383.

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MANUFACTURED BY :

IMMUNOTECH SAS
a Beckman Coulter Company
130, avenue de Lattre de Tassigny
B.P. 177 - 13276 Marseille Cedex 9
France

For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.

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