

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

Human variable β5.3 chain of the T-cell receptor, called TCRBV5S3 according to the nomenclature from Wei et al. (1) is also referred to as TRBV5-5 (based on the IMGT gene nomenclature) (2, 3).

The 3D11 monoclonal antibody (mAb) recognizes the IGRb08 sequence (4), identical to 12A1 sequence (5). It does not recognize Vβ5.2 (PL2.5 sequence) and Vβ5.1 (HBP51 sequence) (6, 7). Recognition of other members of the Vβ5 family has not been detected but cannot be formally excluded.

The specificity of this antibody has been confirmed at the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995 (8).

REAGENT

IOTest Anti-TCR Vβ5.3-PE
Conjugated antibody
PN IM2002 - 1 mL - Liquid - 20 µL/test

Clone	3D11
Isotype	IgG1, Mouse
Immunogen	HPB ALL
Hybridoma	X63 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.
6. Concannon, P., Pickering, L., Kung, P., Hood, L., "Diversity and structure of human T-cell receptor beta-chain variable region genes", 1986, Proc. Natl. Acad. Sci. USA, 83, 6598-6602.
7. Kimura, N., Toyonaga, B., Yoshikai, Y., Triebel, F., Debre, P., Minden, M.D., Mak, T.W., "Sequences and diversity of human T cell receptor beta chain variable region genes", 1986, J. Exp. Med., 164, 739-750.
8. 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.

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., Lemaître, 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. Leiden, J.M., Strominger, J.L., "Generation of diversity of the beta chain of the human T lymphocyte receptor for antigen", 1986, Proc. Natl. Acad. Sci. USA, 83, 4456-4460.

TRADEMARKS

Beckman Coulter logo and IOTest, are trademarks of Beckman Coulter; Beckman Coulter logo, IOTest are registered in the USPTO and SIPO.

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.

www.beckmancoulter.com

Printed in France.

Made in France.

©2011 Beckman Coulter, Inc.