

### Analyte Specific Reagent.

Analytical and performance characteristics are not established.

#### SPECIFICITY

Human variable β2 chain of the T-cell receptor (TCR), also called TCRBV2S1 according to the nomenclature from Wei et al (1) and also referred to as TRBV20-1 (based on the IMGT gene nomenclature) (2, 3).

The MPB2D5 monoclonal antibody recognizes all the members (1, 4) (Molt4 identical to PL2.13, PH34 and TCRVBV2S13 sequences) of the Vβ2 subfamily that are in fact alleles

This mAb has been further characterized by cell sorting on PBL using this monoclonal antibody followed by analysis of sorted cells by molecular biology (5).

This mAb stains from 4.2% to 9.1% of peripheral CD3<sup>+</sup> cells in normal blood. Vβ2 is the target of Toxic Shock Syndrome Toxin 1 (TSST1) (6, 7)

The specificity of this antibody has been confirmed at the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995 (7).

#### REAGENT

IOTest Anti-TCR Vβ2-PE

Conjugated antibody

PN IM2213 - 1 mL - Liquid - 20 µL/test

<b>Clone</b>	MPB2D5
<b>Isotype</b>	IgG1, Mouse
<b>Immunogen</b>	Human T-cell line
<b>Hybridoma</b>	X63 x SJL
<b>Source</b>	Ascites fluid or supernatant of in vitro cultured hybridoma cells.
<b>Purification</b>	Affinity chromatography
<b>Conjugation</b>	R Phycoerythrin (PE)
<b>Molar Ratio</b>	PE / Ig : 0.5 - 1.5
<b>Fluorescence</b>	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.
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3. Lefranc, M.P., "IMGT, the international ImMunoGeneTics database", 2003, Nucleic Acids Res., 31, 307-310.
4. Cornelis, F., Pile, K., Loveridge, J., Moss, P., Harding, R., Julier, C., Bell, J., "Systematic study of human alpha beta T cell receptor V segments shows allelic variations resulting in a large number of distinct T cell receptor", 1993, Eur. J. Immunol., 23, 1277-1283.
5. Clarke, G.R., Reyburn, H., Lancaster, F.C., Boylston, A.W., "Bimodal distribution of Vβ2<sup>+</sup>CD4<sup>+</sup> T cells in human peripheral blood", 1994, Eur. J. Immunol., 24, 837-842.

6. Choi, Y., Kotzin, B., Herron, L., Callahan, J., Marrack, P., Kappler, J., "Interaction of staphylococcus aureus toxin superantigens with human T cells", Proc. Natl. Acad. Sci., USA, 86, 8941-8945
7. 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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