

Monoclonal Antibody Anti-TCR Vβ13.1

PN IM1553 – Purified – Freeze-dried – 0.1 mg – Clone IMMU 222

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY

Human variable β13.1 chain of the T-cell receptor (TCR), also called TCRBV13S1 according to the nomenclature from Wei et al (1) and also referred to as TRBV6-5, TRBV6-6, TRBV6-9 (based on the IMGT gene nomenclature) (2).

Vβ13 is a complex subfamily of the T cell receptor (3).

The IMMU 222 antibody recognizes Vβ13.1 member (HBP34 sequence) (4). Vβ13.3 (IGRb14 sequence) is not recognized (5).

Reactivity with other members of this subfamily has not been found, but cannot be formally excluded.

It has been shown that IMMU 222 can recognize the Vβ13.4 and Vβ13.6 (IGRb16 sequence) (5) subsets.

This antibody stains 1.8% to 3.3% of peripheral CD3⁺ cells in normal blood. The specificity of this antibody has been confirmed at the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995 (6).

REAGENT

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Clone	IMMU 222
Isotype	IgG2b, mouse
Immunogen	Mouse T-cell hybridoma transfected with human Vβ13.1 gene segment
Hybridoma	P3-X63-Ag.8.653 x SJL spleen cells
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Buffer	1 mg/mL bovine serum albumin in phosphate-buffered saline

APPLICATION

Studies of T-cell repertoire by flow cytometry.

STATEMENT OF WARNINGS

1. Specimens, samples and all material

coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.

2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.

No preservative has been added.

REAGENT PREPARATION

Depending of usage, reconstitute with 0.5 mL of distilled water, with or without 0.1% sodium azide (w/v).

The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.

The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.

In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

PROCEDURE

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

It is preferable to double stain the sample with another T-cell marker (CD3, CD4, CD8).

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. Li, Y., Szabo, P., Posnett, D.N., "The genomic structure of human V beta 6 TCR genes", 1991, J. Exp. Med., 174, 1537-1547.
4. Kimura, N., Toyonaga, B., Yoshikai, Y., Triebel, F., Debré, P., Minden, M., Mak, T., "Sequences and diversity of human T-cell receptor β chain variables region genes", 1986, J. Exp. Med., 164, 739-750.
5. 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", Eur. J. Immunol., 21, 935-942.
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.

PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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