

Monoclonal Antibody Anti-TCR V α 24

PN IM1588 – Purified – Freeze-dried – 0.1 mg – Clone C15

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

SPECIFICITY

Human variable α 24 chain of the T cell receptor is also called TCRAV24S1 according to the nomenclature from Arden et al (1).

V α 24 is the only described member of the subfamily of the T cell receptor (2). The monoclonal antibody C15 recognizes the IGRa02 sequence (3, 4). It stains 0.4 to 1% of peripheral CD3 positive lymphocytes from normal donors. V α 24 has been shown to be expanded in a clonal fashion in the CD3+ CD8- CD4- cell population in PBL of several donors (3, 4).

The IGRa02 sequence is also referred to as TRAV10 (based on the IMGT gene nomenclature) (5).

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	C15
Isotype	IgG1, mouse
Immunogen	Human T-cell clone
Hybridoma	PA1 x Balb/c 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. Arden, B., Clark, S.P., Mak, T.W., "Human T cell receptor variable gene segment families", 1995, Immunogenetics, 42, 455-500.
2. Ferradini, L., Roman-Roman, S., Azocar, J., Michalaki, H., Triebel, F., Hercend, T., "Studies on the human TCR α/β variable region genes II. Identification of four

additional V beta subfamilies", 1991, Eur.J. Immunol., 21, 935-942.

3. Padovan, E., Casorati, G., Dellabona, P., Meyer, S., Brockhaus, M., Lanzavecchia, A., "Expression of two T-cell receptor α chains: Dual receptor T-cells", 1993, Science, 262, 422-424.
4. Dellabona, P., Padovan, E., Casorati, G., Brockhaus, M., Lanzavecchia, A., "An invariant V α 24-J α Q/V β 11 T-cell receptor is expressed in all individuals by clonally expanded CD4⁺ T-cells", 1994, J. Exp. Med., 180, 1171-1176.
5. Lefranc, M.P., Giudicelli, V., Ginestoux, C., Bodmer, J., Muller, W., Bontrou, R., Lemaître, M., Malik, A., Barbie, V., Chaume D., "IMGT, the international ImMunoGeneTics database", 1999, Nucleic Acids Res., 27, 209-212.
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.

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