

# Monoclonal Antibody Anti-Human TCR V $\beta$ 17

PN IM1189 – Purified – Freeze-dried – 0.1 mg – Clone E17.5F3.15.13

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

## SPECIFICITY

Human variable  $\beta$ 17 chain of the T-cell receptor called TCRBV17S1 according to the nomenclature of Wei et al (1), also referred to as TRBV19 (based on the IMGT gene nomenclature) (2).

The E17.5F3.15.13 monoclonal antibody recognizes the HBVT02 sequence (3) and is the only member of this subfamily.

It stains from 3.3 to 7% of peripheral CD3<sup>+</sup> cells in normal blood.

V $\beta$ 17 is the target of *Mycoplasma arthritidis* superantigen (MAS) (4) and staphylococcal enterotoxin B (SEB).

The specificity of this antibody has been confirmed at the first Human TcR monoclonal Antibody Workshop in San Francisco in 1995 (5).

## REAGENT

Monoclonal Antibody Anti-Human TCR V $\beta$ 17

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**Clone** E17.5F3.15.13

**Isotype** IgG1, mouse

**Immunogen** Murine T-cell hybridoma transfected with V $\beta$ 17 gene segment

**Hybridoma** P3-X63-Ag.8.653 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. Wei, S., Charnley, 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. Kimura, N., Toyonaga, B., Yoshikai, Y., Du, R.P., Mak, T.W., "Sequences and repertoire of the human T cell receptor alpha and beta chain variable region genes in thymocytes", 1987, Eur.J. Immunol., 17, 375-383.
4. Friedman, S.M., Crow, M.K., Tumang, J.R., Tumang, M., Xu, Y., Hochtsev, A.S. Cole, B.C., Posnett, D.N., "Characterization of human T cells reactive with the Mycoplasma arthritidis-derived superantigen (MAM): generation of a monoclonal antibody against V beta 17, the T cell receptor gene product expressed by a large fraction of MAM-reactive human T cells", 1991, J. Exp. Med., 174, 891-900.
5. 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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