

Mouse Anti-Human T-Cell Receptor V beta-22 Monoclonal Antibody

Mouse, Monoclonal (TRB@)

Cat. No. DMAB3464MH

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Monoclonal Antibody to T-Cell Receptor V beta-22 Phycoerythrin conjugated

Specificity: Human variable beta 22 chain of the T-cell receptor also called TCRBV22S1 according to the nomenclature of Wei, et al. Recognizes at least the IGRb03 sequence. This antibody has been further characterized by cell sorting on PBL using this monoclonal antibody followed by analysis of sorted cells by molecular biology. Analysis of alpha chain mRNA by PCR with a panel of alpha specific oligonucleotides shows transcripts for most V alpha sequences. Analysis of beta chain mRNA by anchored PCR and sequencing, only shows transcripts for IgRbo3 sequence. The specificity of this antibody has been confirmed at the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995.

Isotype: IgG1

Clone: Jmmu547

Host animal: Mouse. Hybridization of X63 Ag 8.653 myeloma cells with spleen cells from Balb/c mice.

Immunogen: Murine T-cell hybridoma transfected with human V beta 22 gene segment.

Source: Ascites

Format: Phyco, Liquid .

Applications: T-cell repertoire studies Superantigenic stimulation of T cells. Flow cytometry: 20ul/5 x 10⁵ cells/test or 100ul whole blood Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded

Affinity Constant: Not determined

ANTIGEN GENE INFORMATION

Gene Name: [TRB@ T cell receptor beta locus \[Homo sapiens \]](#)

Official Symbol: TRB@

Synonyms: TRB@; T cell receptor beta locus; TRB; TCRB; T-cell receptor, beta cluster; T-cell antigen receptor, beta polypeptide, T-cell receptor, beta cluster; T-Cell Receptor V beta-22

GeneID: [6957](#)

MIM: [186930](#)

Chromosome Location: 7q34

Pathway: Cytokines and Inflammatory Response; T Cell Receptor Signaling Pathway

PACKAGING

Concentration: Not applicable

Buffer: PBS containing 2mg/ml BSA

Preservative: 0.1% Sodium azide

Storage: Store (in the dark) at 2-8 C. DO NOT FREEZE.

Warning: This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1 – 1.0 %. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

REFERENCES

1. Kieke, Michele C.; Shusta, Eric V.; Teyton, Luc; Wittrup, K. Dane; Kranz, David M. (1999). "Selection of functional T cell receptor mutants from a yeast surface-display library". Proceedings of the National Academy of Science of the United States of America 96 (10): 5651–5656.
2. Abram, Clare L.; Lowell, Clifford A. (2007-03-13). "The Expanding Role for ITAM-Based Signaling Pathways in Immune Cells". Science Signalling 2007 (377): re2.

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45-16 Ramsey Road Shirley, NY 11967, USA
Tel: 631-624-4882 · Fax: 631-614-7828
E-mail: info@creative-diagnostics.com
www.creative-diagnostics.com