

Mouse Anti-Human T-Cell Receptor V beta-5.1 Monoclonal Antibody

Mouse, Monoclonal (TRB@)

Cat. No. DMAB3467MH

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Monoclonal Antibody to T-Cell Receptor V beta-5.1. Phycoerythrin conjugated
Specificity: Human variable beta 5.1 chain of the T-cell receptor (TCR), also called TCRBV5S1 according to the nomenclature of Wei, et al.(1) This antibody recognizes the HBP51 sequence (2) of the multimembered V beta 5 subfamily. It does not recognize V beta 5.2 (PL2.5 sequence) (3) and V beta 5.3 (12A1 sequence). (4) The specificity of this antibody has been confirmed at the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995. (5)
Isotype: IgG2a
Clone: Jmmu158
Host animal: Mouse. Hybridization of X63Ag8.653myeloma cells with spleen cells from SJL mice.
Immunogen: Murine T-cell hybridoma transfected with human V beta 5.1 gene segment.
Source: Ascites
Format: Phyco, Liquid
Applications: 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

PACKAGING

Concentration: 4ug/ml
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.

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-5.1

GeneID: [6957](#)

MIM: [186930](#)

Chromosome Location: 7q34

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

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.