Mouse Anti-Human T-Cell Receptor V beta-7 Monoclonal Antibody

Mouse, Monoclonal (TRB@)

Cat. No. DMAB3470MH
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Monoclonal Antibody to T-Cell Receptor V beta-7 Phycoerythrin conjugated
Specificity: Human variable beta 7 chain of the T-cell receptor also called TCRBV7S1 according to the nomenclature from Wei et al.(1) The ZOE antibody recognizes V beta 7.1 (PL4.9 sequence, 2). The reactivity on the other members V beta 7.2 and V beta 7.3 (2, 3) cannot be formally excluded.
Isotype: IgG2a
Clone: AOE1
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 V-beta-7 gene segment.
Source: Ascites
Format: Phyco, Liquid
Applications: T-cell repertoire studies 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: Not determined
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-7
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.

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