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AM05096BT-N

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Monoclonal Antibody to T Cell Receptor (TCR) Va 24 - Biotin

Alternate names: TCR V alpha-24
Catalog No.: AM05096BT-N

Quantity: 0.1 mg

Background: A population of mature CD4 CD8 double-negative T cells that expresses an invariant V

alpha 24-J alpha Q TCR has been identified in humans; the majority of these cells appear to express V beta 11. A closely related invariant TCR alpha chain is also expressed by a population of NK1+ murine T cells, but these cells may be either CD4+ or double negative.

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls:

SM10B (for use in human samples)

Clone: C15

Immunogen: Human T-Cell clone

Format: State: Lyophilized purified Ig

Purification: Ion exchange chromatography Buffer System: PBS containing 1mg/ml BSA

Label: Biotin

Reconstitution: Restore with 0.5ml distilled water

Applications: T-cell repertoire studies

Fluorescent microscopy or flow cytometry: 2µg/5x10e5 cells/tests.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This antibody reacts to variable alpha-24 chain of the T cell receptor also called TCRAV24S1

according to the nomenclature from Arden et al. V-alpha-24 is a single membered

subfamily (IGRaO2 sequence). The antibody has been described in; it was characterized on human T cell clones and by extensive cell sorting followed by molecular biology analysis. Valpha-24 has been shown to be expanded in a clonal fashion in the CD3+ CD8- CD4- cell population in PBL of several donors. The specificity of this antibody has been studied at

the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995.

Species: Human.

Other species not tested.





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Storage:

Prior to reconstitution store at 2-8°C.

Following reconstitution store the antibody at -20°C.

The addition of 0.1% (w/v) sodium azide is recommended for storage of the reconstituted

form for up to one month at 2-8°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

- 1. Arden, B., et al., (1995), Human T cell receptor variable gene sigment families, Immunogenetics, 42, 455 500.
- 2. Roman-Roman, S., et al., (1991), Studies of the human T-cell receptor alpha/beta variable region genes I. Identification of 7 additional V-alpha subfamilies and 14 J-alpha gene segments,, Eur. J. Immunol., 21, 927 933.
- 3. Padovan, E., et al., (1993), Expression of two T-cell receptor alpha chains: Dual receptor T cells, Science, 262, 422 424.
- 4. Dellabona, P., et al., (1994), An invariant V-alpha-24-J-Alpha Q/V-beta-11 T-cell receptor is expressed in all individuals by clonally expanded CD4-8-T cells, J. Exp. Med., 180, 1171-1176
- 5. Posnett, D.N., et al., (1996), First human TcR monoclonal antibody workshop, The Immunologist, 4, 1, 5 8.

