

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

Alternate names:	TCR V alpha-24, TCR Va24
Catalog No.:	AM05096PU-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:	SM10P (for use in human samples), AM03095PU-N
Clone:	C15
Immunogen:	Human T-Cell clone
Format:	State: Lyophilized purified Ig Purification: Ion exchange chromatography Buffer System: PBS containing 1mg/ml BSA Reconstitution: Restore with 0.5ml of distilled water
Applications:	T-cell repertoire studies. Fluorescent microscopy or flow cytometry: 2µg/5x10 ⁵ cells/tests. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts to the 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 (IGRa02 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. V-alpha-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.

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 segment 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.