

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

<b>Alternate names:</b>	TCR V alpha-24, TCR Va24
<b>Catalog No.:</b>	AM05096FC-N
<b>Quantity:</b>	50 Tests
<b>Concentration:</b>	25 µg/ml
<b>Background:</b>	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.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10F (for use in human samples)
<b>Clone:</b>	C15
<b>Immunogen:</b>	Human T-cell clone. Mouse. Hybridization of PAI myeloma cells with spleen cells from Balb/c mice.
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Ion Exchange Chromatography. <b>Buffer System:</b> PBS containing 2 mg/ml BSA as stabilizer and 0.09% Sodium Azide as preservative. <b>Label:</b> FITC
<b>Applications:</b>	T-cell repertoire research studies. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Human variable alpha-24 chain of the T cell receptor also called TCRAV24S1 according to the nomenclature from Arden et al.(1). V-alpha-24 is a single membered subfamily (IGRa02 sequence (2)). The antibody has been described in (3,4); 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.(3,4). The specificity of this antibody has been confirmed at the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995 (Ref.5). <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> 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 on the human T-cell receptor alpha/beta variable region genes I. Identification of 7 addition 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, Padovan E, Casorati G, Brockhaus M, Lanzavecchia A. 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. 1994 Sep 1;180(3):1171-6. PubMed PMID: 8064234.
5. Posnett, D.N., et al., (1996), First Human TcR Monoclonal Antibody Workshop, The Immunologist, 4, (1), 5-8.