

## Monoclonal Antibody to T Cell Receptor (TCR) Vb 2 - Purified

<b>Alternate names:</b>	TCR V beta-2, TCR Vb2
<b>Catalog No.:</b>	AM05100PU-N
<b>Quantity:</b>	0.1 mg
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10P (for use in human samples), AM03095PU-N
<b>Clone:</b>	MPB2D5
<b>Immunogen:</b>	Human T-cell line
<b>Format:</b>	<b>State:</b> Lyophilized purified Ig <b>Buffer System:</b> PBS containing 1mg/ml BSA <b>Reconstitution:</b> Restore with 0.5ml of distilled water
<b>Applications:</b>	T-cell repertoire research studies in normal and pathological situations. Superantigenic stimulation of T cells; V beta-2 is for example the target of TSST1. Flow cytometry: 2µg/5x10 <sup>5</sup> cells/test or 100µl whole blood. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts to the variable beta-2 chain of the T-cell receptor. The antibody recognizes all alleles of the single member of V beta-2 family (described in) also called TCRBV2S1 according to the nomenclature from Wei et al. This antibody has been further characterized by cell sorting on PBL using this monoclonal antibody followed by analysis of sorted cells by molecular biology. This antibody is described in ref. 3 and has been confirmed at the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995. <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody at -20°C. The addition of 0.1% 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.
<b>General Readings:</b>	1. Cornélis F, Pile K, Loveridge J, Moss P, Harding R, Julier C, et al. Systematic study of human alpha beta T cell receptor V segments shows allelic variations resulting in a large number of distinct T cell receptor haplotypes. Eur J Immunol. 1993 Jun;23(6):1277-83. PubMed PMID: 8500523. 2. Wei S, Charmley P, Robinson MA, Concannon P. The extent of the human germline T-cell

receptor V beta gene segment repertoire. Immunogenetics. 1994;40(1):27-36. PubMed PMID: 8206523.

3. Clarke, G.R., et al., (1994), Bimodal distribution of V beta-2+CD4+ T cells in human peripheral blood, Eur. J. Immunol., 24, 837 - 842.

4. Posnett, D.N., et al., (1996), First human TcR monoclonal antibody workshop, The Immunologist, 4, (1), 5 - 8.

5. Imberti, L., et al., (1991), Selective depletion in HIV infection of T cells that bear specific T cell receptor V beta sequences, Science, 254, 860 - 862.

6. Choi, Y., et al., Interaction of staphylococcus aureus toxin superantigens with human T cells, Proc. Natl. Acad. Sci., USA, 86, 8941 - 8945.