

## Monoclonal Antibody to T Cell Receptor (TCR) V beta 5.2 - Phyco

<b>Alternate names:</b>	TCR V beta-5.2, TCR Vb5.2
<b>Catalog No.:</b>	AM05104RP-N
<b>Quantity:</b>	50 Tests
<b>Concentration:</b>	12.5 µg/ml
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	36213
<b>Immunogen:</b>	1C1 V beta 5.2 positive cell line.
<b>Format:</b>	<b>State:</b> Liquid purified Ig <b>Buffer System:</b> PBS containing 2mg/ml BSA and 0,09% sodium azide <b>Label:</b> Phyco – Phycoerythrin
<b>Applications:</b>	T-cell repertoire studies. Flow cytometry: 20µl/5 x 10e5 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 variable beta 5.2 chain of the T-cell receptor also called TCRBV5S2 according to the nomenclature from Wei et al.. This antibody recognizes only the PL2.5 sequence. It does not recognize the V beta 5.1 [HPB51 sequence and the V beta 5.3 (IGRb08 sequence)]. Recognition of other members of the V beta 5 family has not been detected but cannot be formally excluded. Cell sorting on PBL gives a heterogenous pattern of staining of the sorted cells. The antibody may thus be sensitive to the clonotypic environment (V alpha, J alpha, D beta, J beta) though molecular analysis of transcripts from the sorted V beta 5.2 positive cells shows different V alpha, D and J beta. The specificity of this antibody 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>	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.
<b>General Readings:</b>	1. 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. 2. Concannon P, Pickering LA, Kung P, Hood L. Diversity and structure of human T-cell receptor beta-chain variable region genes. Proc Natl Acad Sci U S A. 1986 Sep;83(17):6598-602. PubMed PMID: 3489234.

3. Kimura, N., et al., (1986), Sequence and diversity of human T cell receptor beta-chain variable region genes, J. Exp. Med., 164, 739 - 750.
4. Ferradini L, Roman-Roman S, Azocar J, Michalaki H, Triebel F, Hercend T. Studies on the human T cell receptor alpha/beta variable region genes. II. Identification of four additional V beta subfamilies. Eur J Immunol. 1991 Apr;21(4):935-42. PubMed PMID: 1826889.
5. Diu A, Romagné F, Genevée C, Rocher C, Bruneau JM, David A, et al. Fine specificity of monoclonal antibodies directed at human T cell receptor variable regions: comparison with oligonucleotide-driven amplification for evaluation of V beta expression. Eur J Immunol. 1993 Jul;23(7):1422-9. PubMed PMID: 8391986.
6. Postnett, D.N., et al., (1996), First human TcR monoclonal antibody workshop, The Immunologist, 4, (1), 5 - 8.