

Monoclonal Antibody to T Cell Receptor (TCR) Vb 20 - Phyco

Alternate names:	TCR V beta-20, TCR Vb20
Catalog No.:	AM31622RP-N
Quantity:	50 Tests
Host / Isotype:	Mouse / IgG2a
Clone:	ELL1.4
Immunogen:	Mouse T-cell clone hybridoma transfected with human V beta 20 gene segment
Format:	State: Liquid purified Ig fraction Purification: Ion Exchange Chromatography Buffer System: PBS containing 2 mg/ml BSA and 0.09% Sodium Azide Label: Phyco
Applications:	T-cell repertoire studies. Flow cytometry: 20 µl/5 x 10e5 cells/test or 100 µl whole blood. Since this antibody recognizes a small cell population, it is often preferable to use double staining experiments with another T cell marker (CD2, CD3, CD4, CD8, etc.). Double staining is also possible with the purified unlabelled form. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts to variable beta 20 chain of the T-cell receptor also called TCRBV20S1 according to the nomenclature from Wei et al.. V beta 20 is a single membered subfamily (represented by the sequence HUT 102. This sequence is sometimes referred to as Vbeta18. This antibody has been characterized by cell sorting of PBL with ELL 1.4 followed by molecular biology analysis. In 8 sequences analyzed, only J beta 2.7 and J beta 1.1 were found associated with V beta 20. The N regions were different in each case. This specificity of this antibody has been confirmed at the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted (in the Dark) at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.
General Readings:	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. Leiden, J.M., Strominger, J.L., Generation of diversity of the beta chain of the human T lymphocyte receptor for antigen, 1986, Proc. Natl. Acad. Sci. USA 83, 4456 - 4460.

3. Wilson, R.K., Lai E., Concannon, P., Barth, R.K., Hood, L.E., Structure, organisation and polymorphism of murine and human TCR alpha and beta chain gene families, 1998, Immunol. Rev., 101, 149 - 712.
4. Charmley P, Wang K, Hood L, Nickerson DA. Identification and physical mapping of a polymorphic human T cell receptor V beta gene with a frequent null allele. J Exp Med. 1993 Jan 1;177(1):135-43. PubMed PMID: 7678110.
5. Postnett, D.N., et al., First human TcR monoclonal antibody workshop, 1996, The Immunologist, 4, (1), 5 - 8.