

Monoclonal Antibody to T Cell Receptor (TCR) Vb 8.1, 8.2 - Biotin

Alternate names:	TCR V beta-8.1, TCR V beta-8.2, TCR Vb8.1, TCR Vb8.2
Catalog No.:	SM089B
Quantity:	0.1 mg
Background:	V beta 8.1, 8.2 T-cell receptor (TCR) antigen is expressed by 15-20% of peripheral T cells in most strains of mice (ie. Balb/c, AKR, C57BL/6, B10.A), and with a number of T cell hybridomas (ie. DO-11.10, 3DT-52.2, D1G10G11, SKK-9.11, SKK-45.10, MDK16, S18.4).
Host / Isotype:	Rat / IgG1
Clone:	KJ16
Immunogen:	Ag/MHC receptor from DO-11.10, specific for chicken ovalbumin and I-Ad 3
Format:	State: Liquid purified Ig Buffer System: PBS, 0.09% sodium azide (NaN ₃) and a highly purified grade of BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: Biotin
Applications:	Flow cytometry: single, dual, or three colour. (Reported to be useful for Immunoprecipitation.) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with the mouse V beta 8.1, 8.2 T-cell receptor (TCR) antigen. 1 µg is the maximum amount of antibody required for 1 x 10 ⁶ cells. Lesser amounts of antibody may be sufficient and it is recommended that each investigator determine dilutions appropriate for individual use. Appropriate controls should always be included in any labeling study. This clone has been reported to stimulate IL-2 production by DO-11.10, 3DT-52.2, and 51.4 cells and to block responses of DO-11.10, SKK-9.11, and D1G10G113. Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Sim GK, Augustin AA. V beta gene polymorphism and a major polyclonal T cell receptor idotype. Cell. 1985 Aug;42(1):89-92. PubMed PMID: 2410144. 2. Ignatowicz, L., Kappler, J.W., Marrack, P., and Sherer, M.T. 1994. Identification of two Vβ7-specific viral superantigens. J. Immunology. 152:65. 3. Haskins K, Hannum C, White J, Roehm N, Kubo R, Kappler J, et al. The antigen-specific, major histocompatibility complex-restricted receptor on T cells. VI. An antibody to a receptor allotype. J Exp Med. 1984 Aug 1;160(2):452-71. PubMed PMID: 6206178.

4. Yagüe J, White J, Coleclough C, Kappler J, Palmer E, Marrack P. The T cell receptor: the alpha and beta chains define idotype, and antigen and MHC specificity. Cell. 1985 Aug;42(1):81-7. PubMed PMID: 2410143.