



Bi-Test™ CD3 FITC - CD25 PE

Product: Anti-Human CD3 (FITC) T Cell Monoclonal Antibody and Anti-Human CD25 (PE) Interleukin-2 Receptor Lymphocytes Monoclonal Antibody.

Description: Identification of human T cells expressing the 22-28,000 M.W. surface antigen. CD3 is present on 65-85% thymocytes and has a mitogenic effect on peripheral blood T cells. The CD3 epitope is expressed on the epsilon chain of the CD3/T cell antigen receptor (TcR) complex. Identification of human receptor for Interleukin-2 (IL-2R) expressing the 55,000 M.W. surface antigen.

Isotypes: Mouse IgG1 kappa (FITC) and Mouse IgG1 kappa (PE)

Clones: M2AB (CD3 FITC) and 1TYV (CD25 PE)

Applications: Monitoring of T cells subsets in peripheral blood; Characterization of subtypes of T cell leukemias and lymphomas; Analysis of CD3 complex related to the T-cell antigen receptor; Studies of AIDS virus infection; Monitoring of activated T cells in peripheral blood; Analysis of NK subsets; Study of B cell activation.

Use: PBMC: Add 10 μ l of MAB/10⁶ PBMC in 100 μ l PBS. Mix gently and incubate for 15 minutes at 2^o to 8^oC. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

WHOLE BLOOD: Add 10 μ l of MAB /100 μ l of whole blood. Mix gently and incubate for 15 minutes at room temperature (20^oC). Lyse the whole blood. Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. See instrument manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.

Storage: Antibodies are supplied in PBS, 0.08% sodium azide and 0.2% protein carrier for FITC and PE. Antibodies should be stored at 4-8^o C. Monoclonal antibodies should not be frozen. Reagents are stable for the period shown on the vial label when stored properly.

Ordering Information:	Form	Vial Size	Catalog #
	Bi-Test™	50 Test	0325s
	Bi-Test™	100 Test	0325

For research use only. Not for use in human diagnostics or therapeutics.

REFERENCES:

1. Knowles RW. Immunochemical analysis of the T cell-specific antigens. In : Reinhert EL, Haynes BF, Nadl LM and Bernstein ID. eds. Leukocyte Typing II, Human T Lymphocytes. New York, NY: Springer-Verlag; 1986:259
2. Kurrle R. Cluster Report:CD3. In:Knapp W, Dorken B, Gilks WR, Reiber EP, Schmidt RE, Stein H, and von dem Borne AEG Kr, eds. Leukocyte Typing IV, White cell Differentiation Antigens. Oxford, England: Oxford Press 1989:293
3. T cell receptor/CD3-signaling induces death by apoptosis in human T cell receptor gamma delta + Tcells. Janssen O, Wesselborg S, Heckl-Ostreicher B, Pechhold K, Bender A, Schondelmaier S, Moldenhauer G, Kabelitz D | Immunol. 1991 Jan146(1):35-9
4. Clonal analysis of human CD4-CD8-CD3- thymocytes highly purified from postnatal thymus Hori T, Spits H | J. Immunol. 1991 Apr 146(7):2116-21
5. Molecular cloning of the CD3 eta subunit identifies a CD3 zeta-related product in thymus-derived cells Jin YJ, Claton LK, Howard FD, Koyasu S, Sieh M, Steinbrich R, Tarr GE, Reinherz EL. Proc Natl Acad Sci usa 1990 Mar; 87(9):3319-23
6. A Monoclonal Antibody (Anti-Tac) Reactive with Activated and Functionally Mature Human T Cells. Uchiyama T., Broder S., Waldmann TA, 1981 J. Immunol.126,1393
7. Direct Demonstration of the Identity of T Cell Growth Factor Binding Protein and the Tac Antigen. Robb RJ, Greene WC, J. Exp. Med. 1983,158;1332
8. Patients with HIV infection have a reduced proportion of lymphocytes expressing the IL2 receptor p55 chain (TAC, CD25). Zola H., Koh L.Y., Mantzioris B.X., Rhodes D., Clin. Immunol. Immunopathol. 1991 Apr;59(1):16-25
9. Spontaneous lymphocyte proliferation in HTLV-I/II infection reflects preferential activation of CD8 and CD16/56 cell subsets. Prince H.E., Weber D.M., Jensen E.R., Clin. Immunol. Immunopathol. 1991, May;58(3):419-30
10. Defective clonogenic potential of CD8+ T lymphocytes in patients with AIDS. Expansion in vivo of a nonclonogenic CD3+ CD8+ DR+ CD25- T cell population. Pantaleo G., Keonig S., Baseler M., Lane H.C., Fauci A.S., J. Immunol. 1990 Mar ; 144(5):1696-704

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