



Bi-Test™ CD4 FITC - CD25 PE

Product: Anti-human CD4 FITC Helper/Inducer T cell monoclonal antibody and anti-human CD25 IL-2 receptor monoclonal antibody.

Description: Identification of CD4 on human helper/inducer T cells expressing the 60,000 M.W. surface antigen (HLA class II reactive). CD4 is present in low density on monocytes. 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: 7E14 (CD4 FITC) and 1TYV (CD25 PE)

Applications: Monitoring of T cells subsets in peripheral blood; Analysis of T cell subsets involved in helper/inducer functions; Characterization of subtypes of T cell leukemia's and lymphomas; Monitoring of activated T cells in peripheral blood; Analysis of NK subsets; Study of B cell activation.

Use: PBMC: Add 10 µl of MAB/10⁶ PBMC in 100 µl 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 µl of MAB/100 µl 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^oC. 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	0425S
	Bi-Test™	100 Test	0425

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

REFERENCES:

1. Thymus Dependent Membrane Antigens in Man: Inhibition of Cell-Mediated Lympholysis by Monoclonal Antibodies to the TH-2 Antigen. Evans, R.L., Wall, D.W., Platsoucas, C.D., Siegal, F.P., Fikrig, S.M., Testa, C.M, and Good, R.A. Proc. Nat. Acad. Sci. 78,544,1981.
2. Novel Immunoregulatory Functions of Phenotypically Distinct Subpopulations of CD4+ cells in the Human Neonate. Clement, L.T., Vink, P.E., Bradley, G.E. J. Immunology 145(1):102-8,1990 .
3. Antigen Presentation by the CD4 Positive Monocyte Subset. Szabo, G., Miller, C.L., Kodys, K., J. Leukoc. Biol. 47(2): 111-20,1990.
4. Human Immunodeficiency Virus Infection is Efficiently Mediated by a Glycolipid-Anchored form of CD4. Diamond, D.C., Finberg, R., Chaudhuri, S., Sleckman, B.P., Burakoff, S.J., Proc. Natl. Acad. Sci. 87(13):5001-5,1990.
5. Development Regulation of the Intrathymic T cell Precursor Population. Adkins, B., J. Immunol. 146(5):1387-93,1991.
6. Induction of CD4 and Susceptibility to HIV-1 Infection in Human CD8+ T Lymphocytes by Human Herpesvirus 6. Lusso, P., De Maria, A., Malnati, M. Lori, F., De Rocco, S.E., Baseler, M., Gallo, R.C., Nat. 349(6309):533-5, 1991.
7. 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.
8. 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.
9. 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 Ap:59(1):16-25.
10. 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.
11. 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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Exalpa Biologicals, Inc., 86 Rosedale Rd. Watertown, MA 02472
Tel: 800.395.1137 or 617.924.3400, Fax: 866.924.5100 or 617.924.5100, Web:www.exalpa.com