Bi-Test™ CD8 FITC - CD26 PE

Product: Anti-human T and NK Lymphocytes and dipeptidyl peptidase (DPP) Monoclonal Antibody.

Description: Identification of human cytotoxic/suppressor T cells expressing the 32 and 43,000 M.W. surface antigen. CD26 antigen recognizes an enzyme dipeptidyl peptidase, a serine protease. Its M. W. is 120 KDa. The CD26 antigen is associated with the binding of the TAT transactivating protein of the human immunodeficiency virus (HIV).

Isotype: Mouse IgG1 kappa and Mouse IgG2a kappa .

Clones: 17D8(CD8 FITC) and 7C5 (CD26 PE).

Applications: Monitoring of activated T cell subsets in peripheral blood; Study of T lymphocyte cytokine function; Study of leukemia cells; Study of phenotypic analysis of HIV cells; Study of systemic lupus; Study of cell mediated cytotoxicity; Analysis of NK cell subsets; Study of recall antigens and CD4+ $TH1$ response.

Use: PBMC: Add 10 µl of MAB/10^6 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^o C. Mabs 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	0826s
	Bi-Test™	100 Test	0826

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

Exalpha Biologicals, Inc., 2 Shaker Rd, #B101, Shirley, MA 01464
Tel: 800.395.1137 or 978.425.1370, Fax: 866.924.5100 or 978.425.1376, Web: www.exalpha.com

REFERENCES:

1. Evolutionary Conservation of Surface Molecules that Distinguish T Lymphocyte Helper/Inducer and T Cytotoxic/Suppressor Subpopulations in Mouse and Man. Ledbetter,J.A., Evans,R.L., Lipinski,M., Cunningham-Rundles,C., Good,R.A. and Herzenberg,L.A., J. Exp. Med. 153,310, 1981.

2. Circulating Antigen-Specific Suppressor T Cells in a Healthy Woman: Mechanism of Action and Isolation with a Monoclonal Antibody. Engleman,E.G.,Benike,C.J.,and Evans,R.L., Clin. Res. 29, 365a 1981.

3. Induction of Immunoglobulin Secreting Cells in the Allogeneic Mixed Leukocyte Reaction: Regulation by Helper and Suppressor Lymphocyte Subsets in Man. Kotzin,B.L., Benike,C.J. and Engleman,E.G., J. Imm. 127,931,1981.

4. CD4 and CD8 molecules can physically associate with the same T-cell receptor. Gallagher,P.F., Fazekas de St. Groth,B., Miller, J.F.A.P., Proc. Nat. Acad. Sci. 1989,86:10044.

5. Immunofluorescence Measurement in a Flow Cytometer using Low-Power Helium Neon Laser Excitation. Shapiro, H.M, Glazer, A.N., Christenson, L., Williams, J.M., and Strom, T. B. Cytometry 4,276, 1983.

6. Comparison of Helium Neon and Dye lasers for Excitation of Allophycocyanin. Loken, M.R., Kiej, J.F. and Kelly, K.,A. Cytometry 8, 96, 1987.

7. CD26 Antigen is a Surface Dipeptidyl Peptidase IV (DPPIV) as Characterized by Monoclonal Antibodies Clone TII-19-4-7 and 4EL1C7. Scand J Immunol 1990 Ap;31(4): 429-35. Ulmer, A.J., Mattern, T., Feller, A.C., Heymann, E., Flad, H.D.

8. Comitogenic Effect of Solid-phase Immobilized anti-1F7 on Human CD4 T cell activation via CD3 and CD2 Pathways. J Immuno 1990 Jun;144)11):4092-100. Dang, N.H., Torimoto, Y., Deusch, K., Schlossman, S.F., Morimoto, C.

9. Binding of the T Cell Activation Monoclonal Antibody Ta1 to Dipeptidyl Peptidase IV. J Leukoc Biol 1990 Oct;48(4):291-6. Barton, R.W., Prendergast, J., Kennedy, C.A.

10. Expression of CD26 (dipeptidyl peptidase IV) on Resting and Activated Human T-lymphocytes. Scand J Immunol 1991 Jun;33(6):737-48. Mattern, T., Scholz, W., Feller, A.C., Flad, H.D., Ulmer, A.J.

11. Induction of Interleukin 2 (IL-2) and Interferon-gamma and Enhancement of IL-2 receptor Expression by a CD26 Monoclonal Antibody. Eur J Immunol 1991, Apr;21(4):1085-8. Plana, M., Vinas, O., De la Calle-Martin, O., Lozano, F., Ingles-Esteve, J., Romero, M., Alberola-Lia, J., Yague, J. Vilella, R., Vives, J.

12. Lymphocyte Immunophenotypes among anti-HTLV-I/II-positive Blood Donors and Recipients. The Transfusion Safety Study Group. J Acquir Immune Defic Syndr 1991;4(6):628-32. Fletcher, M.A., Gjerset, G.F., Hassett, J., Donegan, E., Parker, J.W., Mosley, J.W.

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

Exalpha Biologicals, Inc., 2 Shaker Rd, #B101, Shirley, MA 01464
Tel: 800.395.1137 or 978.425.1370, Fax: 866.924.5100 or 978.425.1376, Web: www.exalpha.com