



Bi-Test™ CD3 FITC - CD26 PE

Product: Anti-human T cell monoclonal I antibody and anti-human CD26 dipeptidyl peptidase (DPP) monoclonal antibody.

Description: The CD3 epitope is expressed on the epsilon chain of the CD3/T cell antigen receptor (TcR) complex. CD3 is expressed on 65-85% of thymocytes and has a mitogenic effect on peripheral blood T cells. Identification of human T cells expressing the 22-28,000 M. W. surface antigen. The CD26 antigen recognizes the enzyme dipeptidyl peptidase (DPP), 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 (FITC) and Mouse IgG2a kappa (PE)

Clones: M2AB (CD3 FITC) and EUG-6 (CD26 PE)

Applications: Monitoring of T cells subsets in peripheral blood; Characterization of subtypes of T cell leukemia's and lymphomas; Studies of AIDS/HIV virus infection; Analysis of CD3 complex related to the T cell antigen receptor; Study of T lymphocyte cytokine function; Study of systemic lupus; Study of recall antigens and CD4+, T_H1 response.

Use: PBMC: Add 10 µl of MAB/10⁶ PBMC in 100 µl PBS. Mix gently and incubate for 15 minutes at 20° to 8°C. 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°C. 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°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	0326S
	Bi-Test™	100 Test	0326

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. Signal transduction via CD4,CD8 and CD28 in mature and immature thymocytes. Implications for thymic selection. Turka LA, Linsley PS, Paine R 3d, Schieven GI, Thompson GB, Ledbetter JA, J. Immunol. 1991 Mar :146(5): 1428-36.
4. 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 I Immunol. 1991 Jan146(1):35-9.
5. 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.
6. Molecular cloning of the CD3 zeta 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 Ma: 87(9):3319-23.
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 AJ; Mattern T; Feller AC; Heymann E; Flad HD
8. Comitogenic effect of solid-phase immobilized anti-1F7 on human CD4 T cell activation via CD3 and CD2 pathways. SO - J Immunol 1990 Jun ;144(11):4092-100 AU - Dang NH; Torimoto Y; Deusch K; Schlossman SF; Morimoto C
9. Comitogenic effect of solid-phase immobilized anti-1F7 on human CD4 T cell activation via CD3 and CD2 pathways. J Immunol 1990 Jun ;144(11):4092-100 Dang NH; Torimoto Y; Deusch K; Schlossman SF; Morimoto C
10. Binding of the T cell activation monoclonal antibody Ta1 to dipeptidyl peptidase IV. J Leukoc Biol 1990 Oc;48(4):291-6 Barton RW; Prendergast J; Kennedy CA
11. Expression of CD26 (dipeptidyl peptidase IV) on resting and activated human T-lymphocytes. Scand J Immunol 1991 Ju;33(6):737-48 Mattern T; Scholz W; Feller AC; Flad HD; Ulmer AJ
12. 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 Ap;21(4):1085-8 Plana M; Vinas O; De la Calle-Martin O; Lozano F; Ingles-Esteve J; Romero M; Alberola-Illa J; Yague J; Vilella R; Vives J
13. 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 MA; Gjerset GF; Hassett J; Donegan E; Parker JW; Mosley JW

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

Exalpha 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.exalpha.com