

Bi-Test™ CD3 FITC - CD19 PE

Product: Anti-human CD3 FITC T cell Monoclonal Antibody and CD19 PE B Lymphocytes Monoclonal Antibody.

Description: The CD3 epitope is expressed on the epsilon chain of the CD3/T cell antigen receptor (TcR) complex. CD3 is present 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. Identification of CD19 human B cells associated approximately 10% of peripheral blood lymphocytes expressing 95,000 M.W. surface antigen

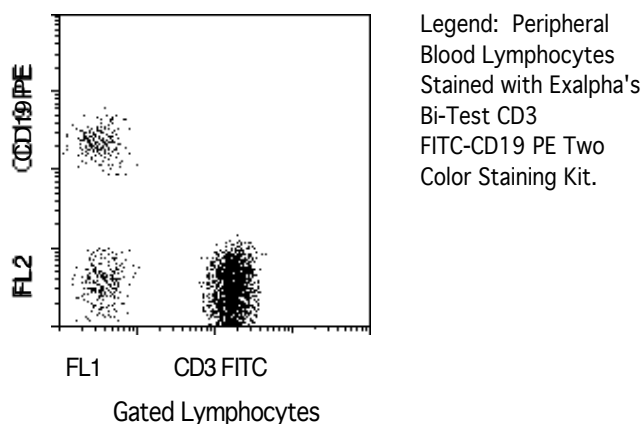
Isotypes: Mouse IgG-1 kappa (FITC) and Mouse IgG-1 kappa (PE)

Clones: M2AB (CD3 FITC) and 1G9 (CD19 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.of AIDS/HIV virus infection; Analysis of CD3 complex related to the T cell antigen receptor; Monitoring of B cells in peripheral blood; Study of B cell activation; Study of B cell neoplasms.

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	0319S
	Bi-Test™	100 Test	0319

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

Exalpa 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.exalpa.com

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 Jan 146(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 Functional Properties of CD19+ B Lymphocytes Positively Selected from Buffy Coats by Immunomagnetic Separation. Funderud S., Erikstien B., Asheim H.C., Nustad K., Stokke T., Blomhoff H.K., Holte H, Smeland E.B., Eur. J. Immunol. 1990 Ja;20(1):201-6
8. Thymic B Cells from Myasthenia Gravis Patients are Activated B Cells. Phenotypic and Functional Analysis. Leprince C., Cohen-Kaminsky S., Berrih-Aknin S., Vernet-Der Garabedian B., Treton D., Galanaud P., Richard Y., J. Immunol. 1990 Oct., 145(7):2115-22
9. Prognostic Significance of CD34 Expression in Childhood B Precursor Acute Lymphocytic Leukemia: A Pediatric Oncology Group Study. Borowitz MJ, Shuster JJ, Civin CI, Carrol AJ, Look AT, Behm FG, Land VJ, Pullen DJ, Crist WM, J. Clin. Onol. 1990 Au;8(8):1389-98
10. Biphenotypic Acute Leukemia in Adults. Sulak LE, Clare CN, Morale BA, Hansen KL, Montiel MM, Am. J. Clin. Path. 1990 Ju;94(1):54-8
11. Intersection of the Complement and Immune Systems: A Signal Transduction Complex of the B Lymphocyte Containing Complement Receptor type 2 and CD19. Matsumoto AK, Kopicky-Burd J., Carter Rh, Tuveson DA, Tedder TF, Fearon, DT, J. Exp. Med. 1991 Jan. 173(1):55-64

WARNING: Reagents containing sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compound should be discarded with proper caution. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. Exalpha is not liable for property damage, personal injury or economic loss caused by the product. Nothing disclosed herein is to be construed as a recommendation to use Exalpha's products in violation of any patents. Exalpha cannot be responsible for patent infringement or other violations that may occur by the use of its products.