



Bi-Test™ CD3 FITC - CD27 PE

Product: Anti-human T cell monoclonal antibody and anti-human CD27 nerve growth factor (NGF) 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 CD27 antigen recognizes disulfide-linked dimer nerve growth factor (NGF) super family of cells expressing the 55kDa surface antigen. CD27 acts as a co-stimulatory on T lymphocytes with its ligand of CD70.

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

Clones: M2AB (CD3 FITC) and DEN-3 (CD27 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 cells and their response to parasitic infections; Study of atopic donors; Study of T cells priming and recall memory; Study of B cell differentiation and immunoglobulin secretion.

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-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^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	0327s
	Bi-Test™	100 Test	0327

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. J Immunol. 1991 Jan;146(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 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 Mar;87(9):3319-23.
6. Morimoto C., Cluster report : CD27. In Schlossman SF., Boumsell L., Gilks W., et al., eds. Leukocyte Typing V: White Cell Differentiation Antigens. Oxford: Oxford University Press: 1995:356-357.
7. CD27 induction on thymocytes. J Immunol 1990 Sep ;145(5):1356-63. Martorell J; Rojo I; Vilella R; Martinez-Caceres E; Vives J
8. CD27 expression by a distinct subpopulation of human B lymphocytes. Eur J Immunol 1990 Dec;20(12):2679-84. Maurer D; Holter W; Majdic O; Fischer GF; Knapp W
9. Regulation of expression of CD27, a T cell-specific member of a novel family of membrane receptors. J Immunol 1991 Apr;146(8):2488-94. de Jong R; Loenen WA; Brouwer M; van Emmerik L; de Vries EF; Borst J; van Lier RA
10. The T-cell activation antigen CD27 is a member of the growth factor/tumor necrosis factor receptor gene family. Camerini D., Walz G., Loenen W., Borst J., Seed B. J. Immunol. 1991;147(9):3165-3169

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