



Bi-Test™ CD2 FITC - CD20 PE

Product: Anti-human CD2 FITC T and NK subset Lymphocytes cell monoclonal antibody and anti-human B Lymphocytes monoclonal antibody.

Description: Identification of human T cells and subset of NK cells associated with the receptor for sheep erythrocytes rosettes expressing the 45-50,000 M.W. surface antigen. Identification of human T lymphocytes in multiple stages of T cell development, including a major subset of mature peripheral T cell. Identification of CD20 on human B cells associated with approximately 10% of peripheral blood lymphocytes.

Isotype: Mouse IgG2a kappa (FITC) and mouse IgG1 kappa (PE)

Clones: T6.3 (CD2 FITC) and DFA-7 (CD20 PE)

Applications: Monitoring of T cells subsets in peripheral blood; Characterization of subtypes of T cell leukemia's and lymphomas; Analysis of NK subsets; Study of T cell activation; Study of B cell activation; Study of B cell neoplasms.

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 to 8^o C. 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^o 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^o 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	0220S
	Bi-Test™	100 Test	0220

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

REFERENCES:

1. An Improved Rosetting Assay for Detection of Human T Lymphocytes. Kaplan M.E., Clark C., J. Immunol. Methods 1974, 5,131
2. Structural and functional characterization of the CD2 immunoadhesion domain. Evidence for inclusion of CD2 in an alpha-beta protein folding class. Recny M.A., Neidhardt E.A., Sayre P.H., Ciardelli T.L., Reinherz E.L., J. Biol. Chem. 1990 May 2;265(15):8541-9
3. Partial deletions of the cytoplasm domain of CD2 result in a partial defect in signal transduction. Bierer B.E., Bogart R.E., Burakoff S.J., J. Immunol. 1990 Feb. :144(3):785
4. Functional CD2 mutants unable to bind to, or be stimulated by, LFA-3. Wolff H.L., Burakoff S.J., Bierer B.E., J. Immunol. 1990 Feb. 1;144(4):1215-20
5. Association of CD2 and CD45 on human T lymphocytes. Schraven B., Samstag Y., Altevogt P., Meuer S.C., Nature 1990 May ;345(6270):71-4
6. In vivo and in vitro expression of myeloid antigens on B-lineage acute lymphoblastic leukemia cells. Leukemia 1991 Ja;5(1):19-25 Hara J; Kawa-Ha K; Yumura-Yagi K; Kurahashi H; Tawa A; Ishihara S; Inoue M; Murayama N; Okada S.
7. Activation of dense human tonsillar B cells. Induction of c-myc gene expression via two distinct signal transduction pathways. J Immunol 1991 Feb ;146(3):846-53 White MW; McConnell F; Shu GL; Morris DR; Clark EA.
8. Differential effects of low and high concentrations of interleukin 6 on human B cells. Eur J Immunol 1990 No;20(11):2389-93 Levy Y; Ferman JP; Brouet JC.
9. Immunophenotypes in "classical" B-cell chronic lymphocytic leukemia. Correlation with normal cellular counterpart and clinical findings. Cancer 1990 Oct 1;66(8):1738-42 Baldini L; Cro L; Cortelezzi A; Calori R; Nobili L; Maiolo AT; Polli EE.
10. B-cell differentiation following autologous, conventional, or T-cell depleted bone marrow transplantation: a recapitulation of normal B-cell ontogeny. Blood 1990 Oct 1;76(8):1647-56 Small TN; Keever CA; Weiner-Fedus S; Heller G; O'Reilly RJ; Flomenberg N.
11. Phenotypic analysis of a large number of normal human bone marrow sample by flow cytometry. Blut 1990 No;61(5):271-7 Andreoni C; Rigal D; Bonnard M; Bernaud J.
12. Identification and characterization of plasma cells in normal human bone marrow by high-resolution flow cytometry. Blood 1990 Nov ;76(9):1739-47 Terstappen LW; Johnsen S; Segers-Nolten IM; Loken MR.

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