



## Bi-Test™ CD3 FITC - CD38 PE

**Product:** Anti-human T cell monoclonal I antibody and anti-human CD 38receptor 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. CD38 antigen is an integral membrane glycoprotein, M.W. 45 kD. The CD38 antigen is present on approximately all pre-B lymphocytes, plasma cells and thymocytes. CD38 antigen is also expressed on activated T Lymphocytes, NK Cells, monocytes, myeloblasts and erythroblasts. CD38 is co-expressed on CD34+ cells, but is not expressed on pluripotent stem cells. CD38 antigen is present on T and B lymphoblastic leukemia (ALL), Burkitts' lymphoma, multiple myeloma and acute myeloid leukemia (AML).

**Isotypes:** Mouse IgG1 kappa (FITC) and Mouse IgG1 kappa (PE)

**Clones:** M2AB (CD3 FITC) and TME-2 (CD38 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 B cell differentiation.

**Use: PBMC:** Add 10  $\mu$ l of MAB/10<sup>6</sup> PBMC in 100  $\mu$ l PBS. Mix gently and incubate for 15 minutes at 2<sup>o</sup> to 8<sup>o</sup>C. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

**WHOLE BLOOD:** Add 10  $\mu$ l of MAB/100  $\mu$ l of whole blood. Mix gently and incubate for 15 minutes at room temperature 20<sup>o</sup>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<sup>o</sup> 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	0338s
	Bi-Test™	100 Test	0338

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

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