



## Bi-Test™ CD3 FITC - CD54 PE

**Product:** Anti-human T cell monoclonal I antibody and anti-human ICAM 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. CD54, M.W. 90,000, antigen is the Intercellular Adhesion Molecule-1 (ICAM-1) and is the ligand for LFA-1 mediated adhesion. CD54 is weakly expressed on peripheral blood leukocytes. Upon activation the antigen is expressed strongly on B cells, T cells, macrophages and granulocytes. ICAM-1 is also inducible on endothelial cells, epithelial cells and fibroblasts.

**Isotypes:** Mouse IgG1 kappa (FITC) and Mouse IgG2b kappa (PE)

**Clones:** M2AB (CD3 FITC) and D3.6 (CD54 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 receptors; Study of T cell/monocyte adhesion; Study of B cell adhesion; Study of cell adhesion molecules; Study of the rhinovirus.

**Use:** PBMC: Add 10 µl of MAB/10<sup>6</sup> PBMC in 100 µl 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 µl of MAB/100 µl 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   | B354s     |
|                      | Bi-Test™ | 100 Test  | B354      |

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

## REFERENCES:

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