



## Bi-Test™ CD4 FITC - CD45RA PE

**Product:** Anti-Human CD4 (FITC) Helper/Inducer T Cell Monoclonal Antibody and Anti-human CD45RA (PE) Leucocyte Common Antigen Monoclonal Antibody.

**Description:** Identification of CD4 human helper/inducer T cells expressing the 60,000 M.W. surface antigen (HLA class II reactive). CD4 is present in low density on monocytes. CD45RA recognizes Mr. 220-kdalton of the leucocyte antigen (LCA). CD45RA antigen is a member of the CD45 antigen family that also includes CD45, CD45RO, and CD45RB antigens. CD45RA is Expressed on approximately 75% of CD8 lymphocytes and 50% of CD4 lymphocytes, all B cells and NK Cells. CD45RA antigen is expressed on naive T lymphocytes, antigen density decreases upon in vitro activation. A decrease antigen density has been demonstrated for CD4+CD45RA+subset with active multiple sclerosis.

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

**Clones:** 7E14 (CD4 FITC) and BHKG-2 (CD45RA PE)

**Applications:** Monitoring of T cells subsets in peripheral blood; Characterization of subtypes of T cell leukemias and lymphomas; Analysis of T cell subsets involved in helper/inducer functions; Studies of AIDS virus infection; Study of T lymphocyte cytokine function; Study of B cell activation; Study of Cell-adhesion molecules relating T and B lymphocytes; Studies of multiple sclerosis and other autoimmune disease.

**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 20<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	445RAs
	Bi-Test™	100 Test	445RA

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

## REFERENCES:

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