



3-Color™ CD3 FITC-CD4 RPE-CD45 RPE-Cy-5+

Product: Exalpa Biological's 3-Color™ System - CD3 FITC-CD4 PE-CD45 RPE-Cy-5. Single laser excitation at 488 nm and emission at 670 nm.

Description: The CD3 epitope is expressed on the epsilon chain of the CD3/T cell antigen receptor (TcR) complex. CD3 is present on 65-85% of thymocytes and has a mitogenic effect on peripheral blood T cells. CD3 identifies human T cells expressing the 22-28,000 M.W. surface antigen. CD4 identifies 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. CD45 identifies all human leukocytes, lymphocytes, monocytes, polymorphonuclear cells, eosinophils and basophils in peripheral blood expressing the 180-220K M.W. T200 family surface antigen. CD45 is also present on thymus, spleen, tonsil and progenitor cells in bone marrow.

Isotypes: Mouse IgG1 kappa / IgG1 kappa / IgG1 kappa.

Clones: M2AB (CD3 FITC)-7E14 (CD4 PE)-BHPT-6 (CD45 RPE-Cy-5)

Fluorescence Information:

<u>Dye</u>	<u>Excitation</u>	<u>Emission</u>
FITC	488 nm	530 EM λ max nm
RPE	488 nm	565 EM λ max nm
RPE-Cy-5	488 nm	670 EM λ max nm

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.
Analysis of T cell subsets involved in helper/inducer functions.
Monitoring of Leukocyte cells subsets in peripheral blood.
Studies of progenitor cells in bone marrow

Use: PBMC: Add 10 μ l of 3-Color™ antibody reagent/10⁶ PBMC in 100 μ l PBS. Mix gently and incubate for 15 minutes at 2° to 8° C. Wash twice with PBS. Wash twice with PBS or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

WHOLE BLOOD: Add 10 μ l of Exalpa Biological's 3-Color™ antibody reagent MAB/100 μ l of whole blood. Mix gently and incubate for 15 minutes at room temperature 20° 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.

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

Storage: 3-Color™ reagents are supplied in PBS, 0.08% sodium azide and 0.2% carrier protein. 3-Color™ should be stored at 4-8^o C until use. 3-Color™ should not be frozen and is stable for the period shown on the vial label.
3-Color™ should be stored in the dark at all times.

Ordering Information	Form	Vial Size	Catalog#
	3-Color™ CD3/4/45	50 Test	X1044s
	3-Color™ CD3/4/45	200 Test	X1044

Cy-5* Portions of this product is manufactured under license from Carnegie Mellon University, U.S. Patent Number 5,268,486.

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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