



3-Color™ CD3 FITC-CD4 RPE-CD8 RPE-Cy-5+

Product: Exalpa Biological's 3-Color™ System - CD3 FITC-CD4 PE-CD8 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. Identification of CD8 on human cytotoxic/ suppressor T cells expressing the 32 and 43,000 M.W. surface antigens.

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

Clones: M2AB (CD3 FITC)-7E14 (CD4 PE)-17D8 (CD8 RPE-Cy-5)

Fluorescence Information:

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

Applications: Monitoring of T cells subsets in peripheral blood.
Analysis of CD3 complex related to the T cell antigen receptor.
Analysis of T cell subsets involved in helper/inducer functions.
Characterization of subtypes of T cell leukemia's and lymphomas.
Studies of AIDS/HIV virus infection.
Analysis of NK subsets.
Study of cell mediated cytotoxicity.

Use: PBMC: Add 15 µl of 3-Color™ antibody reagent/10⁶ PBMC in 100 µl 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 15 µl of Exalpa Biological's 3-Color™ antibody reagent MAB/100 µl of whole blood. Mix gently and incubate for 15 minutes at room temperature 20° C. Lyse the whole blood. Wash twice 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™ CD3/4/8	50 Test	X1046S
	3-Color™ CD3/4/8	200 Test	X1046

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