



### 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 $\lambda$ max nm |
| RPE        | 488 nm            | 565 EM $\lambda$ max nm |
| RPE-Cy-5   | 488 nm            | 670 EM $\lambda$ 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  $\mu$ l of 3-Color™ antibody reagent/ $10^6$  PBMC in 100  $\mu$ 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 15  $\mu$ l of Exalpa Biological's 3-Color™ antibody reagent MAB/100  $\mu$ l 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<sup>o</sup> 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.

| <b>Ordering Information</b> | <b>Form</b>      | <b>Vial Size</b> | <b>Catalog#</b> |
|-----------------------------|------------------|------------------|-----------------|
|                             | 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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