



### 3-Color™ CD3 FITC-CD8 RPE-CD45 RPE-Cy-5<sup>+</sup>

**Product:** Exalpa Biological's 3-Color™ System - CD3 FITC-CD8 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. CD8 identifies cytotoxic/suppressor human T cells expressing the 32 and 43,000 M.W. surface antigen. 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)-17D8 (CD8 PE)-BHPT-6 (CD45 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.  
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 cytotoxic/suppressor functions.  
Analysis of NK subsets.  
Study of cell mediated cytotoxicity.  
Monitoring of Leukocyte cells subsets in peripheral blood.  
Studies of progenitor cells in bone marrow.

**Use:** PBMC: Add 10 µl of 3-Color™ antibody reagent/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. Add 10 µl of Exalpa Biological's pre-titered 3-Color™ and incubate 15 minutes at 2<sup>o</sup> to 8<sup>o</sup> C. Wash twice with PBS or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

WHOLE BLOOD: Add 10 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<sup>o</sup> C. Lyse the whole blood. Wash once with PBS and add 10 µl of Exalpa Biological's 3-Color™ and incubate 15 minutes at 2<sup>o</sup> to 8<sup>o</sup> C. Wash twice with PBS 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™ CD3/8/45	50 Test	X1045
	3-Color™ CD3/8/45	200 Test	X1045

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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