

CD3/CD4/CD8 Antibody Cocktail, FITC, PE, PE-Cyanine5

Catalog NumberMA1-12474

Product data sheet

Details		Species Reactivity	
Size	50 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested ApplicationsDilution *	
Class	Cocktail		
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Clone	M2AB, 7E14, 17D8		
Immunogen	human thymocytes and human peripheral blood T lymphocytes		
Conjugate	FITC , PE , PE-Cyanine5		
Form	Liquid	Flow Cytometry (Flow)Assay-dependent	
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

This antibody is a monoclonal mixture of FITC-conjugated CD3 (clone M2AB, isotype IgG1), PE-conjugated CD4 (clone 7E14, isotype IgG1) and Cy5-PE-conjugated CD8 (clone 17D8, isotype IgG1).

Background/Target Information

CD8 (Cluster of Differentiation 8) is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediate efficient cell-cell interactions within the immune system. The CD8 antigen acts as a co-receptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. CD8 is found on a T cell subset of normal cytotoxic/suppressor cells which make up approximately 20-35 % of human peripheral blood lymphocytes. The CD8 antigen is also detected on natural killer (NK) cells, subpopulations of peripheral blood null cells, thymocytes and bone marrow cells. The CD8 co-receptor functions as either a homodimer composed of two alpha chains, or as a disulfide-linked heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. The majority of CD8+ T cells express CD8 as a alpha/beta heterodimer. In HIV, the HIV-2 envelope glycoprotein binds CD8 alpha chain (but not the beta chain).

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