CD4 (RPA-T4) Mouse mAb (FITC Conjugate)



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Applications: R IF-IC, FC-FP, FC-L	Reactivity:	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P01730	Entrez-Gene Id: 920		
Product Usage Information		Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)			Dilution 1:1600 - 1:3200 1:20 1:20		
Storage		Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.					
Specificity/Sensitivit	:y	CD4 (RPA-T4) Mouse mAb (FITC Conjugate) recognizes endogenous levels of total CD4 protein. This antibody detects an epitope within the extracellular domain.					
Source / Purification	I	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.					
Description		This Cell Signaling Technology antibody is conjugated to FITC and tested in-house for direct flow cytometric analysis in human cells.					
Background		Cluster of Differentiation 4 (CD4) is a glycoprotein composed of an amino-terminal extracellular domain (four domains: D1-D4 with Ig-like structures), a transmembrane part, and a short cytoplasmic tail. CD4 is expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells, and plays an important role in the development and activation of T cells. On T cells, CD4 is the co-receptor for the T cell receptor (TCR), and these two distinct structures recognize the Antigen-Major Histocompatibility Complex (MHC). Specifically, the D1 domain of CD4 interacts with the β 2-domain of the MHC class II molecule. CD4 ensures specificity of the TCR-antigen interaction, prolongs the contact between the T cell and the antigen presenting cell, and recruits the tyrosine kinase Lck, which is essential for T cell activation (1).					
Background Referen	ices	1. Zamoyska, R. (1994) <i>Immunity</i> 1, 243-6.					
Species Reactivity		Species reactivity is dete	ermined by testing in at le	east one approved ap	plication (e.g., western blot).		
Applications Key		IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)					
Cross-Reactivity Key	,	H: Human					
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