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



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P01730	Entrez-Gene Id: 920		
Product Usage Information		Application Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)			Dilution 1:20 1:20		
Storage		Supplied in 10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.					
Specificity/Sensi	tivity	CD4 (RPA-T4) Mouse mAb (APC Conjugate) recognizes endogenous levels of total CD4 protein. This antibody detects an epitope within the extracellular domain.					
Source / Purifica	tion	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 allophycocyanin (APC) 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 Ref	erences	1. Zamoyska, R. (1994) <i>Immunity</i> 1, 243-6.					
Species Reactivit	ţy	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Key	,	FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)					
Cross-Reactivity	Key	H: Human					
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