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CD3 (UCHT1) Mouse mAb (violetFluor[™] 450 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: #P07766	Entrez-Gene Id: 916	
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. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>				
Specificity/Sensi	itivity	CD3 (UCHT1) Mouse mAb (violetFluor™ 450 Conjugate) recognizes endogenous levels of total CD3ε protein. This antibody detects an epitope within the extracellular domain of CD3ε protein.				
Source / Purifica	ition	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 violetFluor™ 450 and tested in-house for direct flow cytometric analysis in human cells.				
Background Background Ref	erences	 When T cells encounter antigens via the T cell receptor (TCR), information about the quantity and quality of antigens is relayed to the intracellular signal transduction machinery (1). This activation process depends mainly on CD3 (Cluster of Differentiation 3), a multiunit protein complex that directly associates with the TCR. CD3 is composed of four polypeptides: ζ, γ, ε, and δ. Each of these polypeptides contains at least one immunoreceptor tyrosine-based activation motif (ITAM) (2). Engagement of the TCR complex with foreign antigens induces tyrosine phosphorylation in the ITAM motifs and phosphorylated ITAMs function as docking sites for signaling molecules such as ZAP-70 and the p85 subunit of PI-3 kinase (3,4). TCR ligation also induces a conformational change in CD3ε, such that a proline region is exposed and then associates with the adaptor protein Nck (5). The UCHT1 antibody is widely used as a marker for phenotyping human T cells (6-8). 1. Kuhns, M.S. et al. (2006) <i>Immunity</i> 24, 133-139. 2. Pitcher, L.A. and van Oers, N.S. (2003) <i>Trends Immunol.</i> 24, 554-560. 3. Osman, N. et al. (1996) <i>Eur. J. Immunol.</i> 26, 1063-1068. 4. Hatada, M.H. et al. (1995) <i>Nature</i> 377, 32-38. 5. Gil, D. et al. (2002) <i>Cell</i> 109, 901-912. 6. Londei, M. et al. (1989) <i>Proc Natl Acad Sci U S A</i> 86, 8502-6. 7. Sallusto, F. et al. (2003) <i>J Clin Invest</i> 112, 1437-43. 				
Species Reactivi	ty	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	Кеу	H: Human				
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