CD3 (17A2) Rat mAb (FITC Conjugate)



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Applications: IF-F, FC-FP, FC-L	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rat IgG2b kappa	UniProt ID: #P22646, #P11942	Entrez-Gene Id: 12501, 12502	
Product Usage Information		For optimal flow cytometry results, we recommend 0.5 μg of antibody per test. A slight precipitate may be present, but will not interfere with the antibody performance. If precipitates are present, centrifuge the tube at 6,000 χg for 10-30 sec. Draw off the supernatant and place into a light protective vial.				
		Application		Dilution		
		Immunofluorescence (Fr	ozen)		1:800 - 1:1600	
		Flow Cytometry (Fixed/P	ermeabilized)		1:100	
		Flow Cytometry (Live)			1:100	
Storage		Supplied in 10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 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/Sensitivity		CD3 (17A2) Rat mAb (FITC Conjugate) recognizes endogenous levels of total CD3ε, CD3γ, and CD3δ proteins. This antibody detects epitopes within the extracellular domains.				
Source / Purification This monoclonal antibody was purified from tissue cultur The purified antibody was conjugated under optimal con preparation.						
Description		This Cell Signaling Technology antibody is conjugated to FITC and tested in-house for dicytometric analysis in mouse cells.			d in-house for direct flow	
Background		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 CD3 ϵ , such that a proline region is exposed and then associates with the adaptor protein Nck (5).				
Background Refe	rences	2. Pitcher, L.A. and van O 3. Osman, N. et al. (1996 4. Hatada, M.H. et al. (19	M.S. et al. (2006) <i>Immunity</i> 24, 133-139. L.A. and van Oers, N.S. (2003) <i>Trends Immunol.</i> 24, 554-560. , N. et al. (1996) <i>Eur. J. Immunol.</i> 26, 1063-1068. , M.H. et al. (1995) <i>Nature</i> 377, 32-38. et al. (2002) <i>Cell</i> 109, 901-912.			
Species Reactivity	y	Species reactivity is dete	rmined by testing in at	least one approved app	lication (e.g., western blot).	
Applications Key		IF-F: Immunofluorescence (Frozen) FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry				

IF-F: Immunofluorescence (Frozen) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key

M: Mouse

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