CD3 (17A2) Rat mAb (APC-Cy7[®] Conjugate)



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: FC-L	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rat IgG2b kappa	UniProt ID: #P22646, #P11942	Entrez-Gene Id: 12501, 12502		
Product Usage		For optimal flow cytometry results, we recommend 0.5 μg of antibody per test.					
Information		Application Flow Cytometry (Live)			Dilution 1:40		
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 6 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.					
Specificity/Sensit	tivity	CD3 (17A2) Rat mAb (APC-Cy7 [®] Conjugate) recognizes endogenous levels of total CD3ε, CD3γ, and CD3δ proteins. This antibody detects epitopes within the extracellular domains.					
Source / Purificat	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 APC-Cy7 [®] and tested in-house for direct flow cytometric analysis in mouse cells.					
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	erences	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.					
Species Reactivit	у	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Key		FC-L: Flow Cytometry (Live)					
Cross-Reactivity	Key	M: Mouse					
Trademarks and	Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					
		Cy and CyDye are registered trademarks of GE Healthcare.					
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.					
Limited Uses		the following terms appl terms and conditions that	y to Products provided at are in addition to, or o	by CST, its affiliates or its different from, those cor	horized representative of CST, distributors. Any Customer's ntained herein, unless CST, are rejected and are of no		

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.