Store at +4C

857

Acetyl-Histone H3 (Lys9) (C5B11) Rabbit mAb (Pacific Blue[™] 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-FP	Reactivity: H M R Mk Z	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350	
Product Usage Information		Application Flow Cytometry (Fixed/Pe	ermeabilized)		Dilution 1:50	
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensit	ivity	Acetyl-Histone H3 (Lys9) (C5B11) Rabbit mAb (Pacific Blue™ Conjugate) recognizes endogenous levels of histone H3 only when acetylated at Lys9. This antibody does not cross-react with other acetylated histones.				
Species predicted based on 100% se homology		S. cerevisiae				
Source / Purificat	ion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide correspond amino terminus of histone H3 in which Lys9 is acetylated.		etic peptide corresponding to the		
Description		This Cell Signaling Technology antibody is conjugated to Pacific Blue™ fluorescent dye and tested in- house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Acetyl-Histone H3 (Lys9) (C5B11) Rabbit mAb #9649.				
Background		H2A, H2B, H3, and H4), is histones undergo various methylation, and ubiquit have a direct effect on th expression (6). In most sp H3 is primarily acetylated dominant role in histone at Ser10, Ser28, and Thr1 both mitosis and meiosis	ome, made up of DNA wo the primary building blo s posttranslational modif ination (2-5). These modi e accessibility of chroma becies, histone H2B is pri l at Lys9, 14, 18, 23, 27, a deposition and chromati 1 of histone H3 is tightly (8-10). Phosphorylation lyzed by the kinase haspi als mitotic phosphorylatio	bund around eight co bock of chromatin (1). T ications, including ac fications occur in res tin to transcription fa marily acetylated at L nd 56. Acetylation of in assembly in some correlated with chro at Thr3 of histone H3 n. Immunostaining v	re histone proteins (two each of The amino-terminal tails of core retylation, phosphorylation, ponse to various stimuli and ctors and, therefore, gene Lys5, 12, 15, and 20 (4,7). Histone H3 at Lys9 appears to have a organisms (2,3). Phosphorylation mosome condensation during t is highly conserved among with phospho-specific antibodies	
Background References		 Workman, J.L. and Kingston, R.E. (1998) <i>Annu Rev Biochem</i> 67, 545-79. Hansen, J.C. et al. (1998) <i>Biochemistry</i> 37, 17637-41. Strahl, B.D. and Allis, C.D. (2000) <i>Nature</i> 403, 41-5. Cheung, P. et al. (2000) <i>Cell</i> 103, 263-71. Bernstein, B.E. and Schreiber, S.L. (2002) <i>Chem Biol</i> 9, 1167-73. Jaskelioff, M. and Peterson, C.L. (2003) <i>Nat Cell Biol</i> 5, 395-9. Thorne, A.W. et al. (1990) <i>Eur J Biochem</i> 193, 701-13. Hendzel, M.J. et al. (1997) <i>Chromosoma</i> 106, 348-60. Goto, H. et al. (1999) <i>J Biol Chem</i> 274, 25543-9. Preuss, U. et al. (2003) <i>Nucleic Acids Res</i> 31, 878-85. Dai, J. et al. (2005) <i>Genes Dev</i> 19, 472-88. 				
Species Reactivity	y	Species reactivity is deter	mined by testing in at lea	ast one approved app	blication (e.g., western blot).	
Applications Key		FC-FP: Flow Cytometry (F	ixed/Permeabilized)			
Cross-Reactivity F	۲ey	H: Human M: Mouse R: R	at Mk: Monkey Z: Zebraf	ïsh		

Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
	Pacific Blue is a trademark of Life Technologies Corporation.
	U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
	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 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.