2/22/24, 11:31 AM Revision 3

	Histone H3 (96C10) Mouse mAb		Cell Signaling		
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Onl	v Not for Use in	Diagnostic Procedures.
	y, NOUTOF OSC III	Diagnostici roccuares.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 17	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P68431	Entrez-Gene Id: 8350	
Product Usage Information		<b>lication</b> stern Blotting			Dilution 1:1000		
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than	
Specificity / Sensit	H3.1,			endogenous levels of to s not cross-react with ot			
Species predicted react based on 100 sequence homolog	0%	D. melanogaster, Xenopus, Horse					
Source / Purificatio		oclonal antibody is p oxy terminus of hum	,	nunizing animals with a s	synthetic peptide corre	sponding to the	
Background	The r and F variou ubiqu acces histor 14, 1s chror tightly at Th Immu	nucleosome, made H4), is the primary b us posttranslational uitination (2-5). The ssibility of chromatii ne H2B is primarily 8, 23, 27, and 56. A matin assembly in s y correlated with ch ir3 of histone H3 is unostaining with pho	up of DNA woun building block of I modifications, in se modifications n to transcription acetylated at Lys Acetylation of H3 come organisms romosome cond highly conserved ospho-specific at	an important role in the i d around eight core hist chromatin (1). The amin ncluding acetylation, pho occur in response to va factors and, therefore, s5, 12, 15, and 20 (4,7). at Lys9 appears to have (2,3). Phosphorylation a ensation during both mi d among many species a ntibodies in mammalian norylation during anapha	one proteins (two eacl o-terminal tails of core osphorylation, methyla rious stimuli and have gene expression (6). In Histone H3 is primaril e a dominant role in his t Ser10, Ser28, and T tosis and meiosis (8-1) and is catalyzed by the cells reveals mitotic p	h of H2A, H2B, H3, e histones undergo tition, and a direct effect on the n most species, ly acetylated at Lys9, stone deposition and hr11 of histone H3 is 0). Phosphorylation e kinase haspin.	
Background Refer	2. Ha 3. Str 4. Ch 5. Be 6. Jas 7. Th 8. He 9. Go 10. Pre	nsen, J.C. et al. (19 rahl, B.D. and Allis, neung, P. et al. (200 rrnstein, B.E. and So	998) Biochemistr C.D. (2000) Natu 0) Cell 103, 263- chreiber, S.L. (20 erson, C.L. (2003 990) Eur J Bioch 997) Chromosol J Biol Chem 274 3) Nucleic Acids	ure 403, 41-5. -71. 002) Chem Biol 9, 1167- 3) Nat Cell Biol 5, 395-9 em 193, 701-13. ma 106, 348-60. 4, 25543-9. Res 31, 878-85.	-73.		
Species Reactivity	Specie	es reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffe				membrane with diluted th gentle shaking, overn		% w∕v nonfat dry	

## **Applications Key**

Histone H3 (96C10) Mouse mAb (#3638) Datasheet Without Images Cell Signaling Technology WB: Western Blotting

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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