e at -20C	Histone H3 Antibody		ell Signaling
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com
പ		Support:	877-678-TECH (8324)
#9715		Web:	info@cellsignal.com cellsignal.com
#	3 Trask L	ane Danvers M	assachusetts 01923 USA

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

Applications: WB	Reactivity: H M R Mk Z B Pg	Sensitivity: Endogenous	MW (kDa): 17	Source: Rabbit	UniProt ID: #P68431	Entrez-Gene Id: 8350	
Product Usage Information		lication tern Blotting			Dilution 1:1000		
Storage		lied in 10 mM sod . Do not aliquot the		5), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	Jycerol. Store at –	
Specificity / Sen		Histone H3 Antibody detects endogenous levels of total histone H3 protein. This antibody does not cross- react with other histones.					
Species predicte react based on 1 sequence homol	.00%	elanogaster					
Source / Purifica	carbo	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of human histone H3. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	The r and F variou ubiqu acces histor 14, 1: chror tightly at Th Immu	nucleosome, made H4), is the primary us posttranslationa itination (2-5). The ssibility of chromat ne H2B is primarily 8, 23, 27, and 56. natin assembly in y correlated with c r3 of histone H3 is unostaining with ph	e up of DNA wound building block of ch al modifications, inc ese modifications of tin to transcription fa y acetylated at Lys5 Acetylation of H3 at some organisms (2 hromosome conder s highly conserved a nospho-specific anti	around eight core h aromatin (1). The am luding acetylation, p ccur in response to actors and, therefore , 12, 15, and 20 (4, , 12, 9 appears to ha ,3). Phosphorylation isation during both n umong many species	e regulation of transcript istone proteins (two each nino-terminal tails of core shosphorylation, methyla various stimuli and have e, gene expression (6). In 7). Histone H3 is primaril ave a dominant role in his a at Ser10, Ser28, and T mitosis and meiosis (8-1) s and is catalyzed by the an cells reveals mitotic p hase (11).	h of H2A, H2B, H3, e histones undergo tion, 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 Ref	2. Ha 3. Str 4. Ch 5. Be 6. Jas 7. Th 8. He 9. Go 10. Pre 11. Da	nsen, J.C. et al. (1 ahl, B.D. and Allis eung, P. et al. (200 rnstein, B.E. and S skelioff, M. and Pe orne, A.W. et al. (1 ndzel, M.J. et al. (1 to, H. et al. (1999) euss, U. et al. (2005) C	1998) Biochemistry , C.D. (2000) Nature 00) Cell 103, 263-7: Schreiber, S.L. (200 terson, C.L. (2003) 1990) Eur J Biocher 1997) Chromosoma 1 Biol Chem 274, 2 03) Nucleic Acids Re Genes Dev 19, 472-	e 403, 41-5. 1. 2) <i>Chem Biol</i> 9, 116 <i>Nat Cell Biol</i> 5, 395 n 193, 701-13. a 106, 348-60. 25543-9. es 31, 878-85.	97-73. -9.		
Species Reactivi	ty Specie	es reactivity is dete	ermined by testing i	n at least one appro	ved application (e.g., we	estern blot).	
Western Blot Bu				nembrane with dilute gentle shaking, ove	ed primary antibody in 59 rnight.	% w/v nonfat dry	

1/1/24, 7:17 AM Applications Key	Histone H3 Antibody (#9715) Datasheet Without Images Cell Signaling Technology WB: Western Blotting				
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster 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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