1/1/24, 6:49 AM Revision 7

Phospho-Histone H3 (Ser10) Antibody						<b>Il Signaling</b> C H N O L O G Y <sup>®</sup> 877-616-CELL (2355)	
St						orders@cellsignal.com	
01					Support:	877-678-TECH (8324)	
#9701					Web:	info@cellsignal.com cellsignal.com	
	t for Lloo in I	Diagnastia Dras	aduraa	3 Trask	Lane Danvers Mas	ssachusetts 01923 USA	
For Research Use Only. No				Courses	Lin: Drect ID:	Future Concelde	
	eactivity: M R Mk Dm	Sensitivity: Endogenous	<b>MW (kDa):</b> 17	Source: Rabbit	<b>UniProt ID:</b> #P68431	Entrez-Gene Id: 8350	
Product Usage	Арр	Application				Dilution	
Information	Wes	Western Blotting			1:1000		
	Imm	nunohistochemistry	r (Paraffin)		1:	100 - 1:400	
	Imm	nunofluorescence (	Immunocytochemis	try)	1:	200 - 1:800	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. St 20°C. Do not aliquot the antibody.				glycerol. Store at –		
Specificity / Sensitivi	at Se	Phospho-Histone H3 (Ser10) Antibody detects endogenous levels of histone H3 only when phosphorylated at Ser10; however, this antibody does not detect phosphorylated Ser10 when Lys9 is acetylated or methylated. This antibody does not cross-react with histone H3 phosphorylated at Ser28.					
Species predicted to react based on 100% sequence homology:		ppus					
Source / Purification	to res	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser10 of human histone H3. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	The I and I vario ubiqu acce histo 14, 1 chroi tightl at Th Immu	nucleosome, made H4), is the primary us posttranslationa uitination (2-5). The ssibility of chromat ne H2B is primarily 8, 23, 27, and 56. matin assembly in y correlated with cl r3 of histone H3 is unostaining with ph	e up of DNA wound a building block of chi al modifications, incl ese modifications oc in to transcription fa v acetylated at Lys5, Acetylation of H3 at some organisms (2, hromosome conden highly conserved a	around eight core h romatin (1). The an uding acetylation, p cur in response to ctors and, therefore 12, 15, and 20 (4, Lys9 appears to ha 3). Phosphorylatior sation during both mong many specie podies in mammalia	e, gene expression (6). 7). Histone H3 is prima ave a dominant role in a at Ser10, Ser28, and mitosis and meiosis (8- s and is catalyzed by t an cells reveals mitotic	ach of H2A, H2B, H3, bre histones undergo rlation, and ve a direct effect on the . In most species, urily acetylated at Lys9, histone deposition and Thr11 of histone H3 is -10). Phosphorylation he kinase haspin.	
Background Referen	2. Ha 3. Sti 4. Ch 5. Be 6. Ja 7. Th 8. He 9. Go 10. Pri 11. Da	ansen, J.C. et al. (1 rahl, B.D. and Allis neung, P. et al. (200 ernstein, B.E. and S skelioff, M. and Pe orne, A.W. et al. (1 endzel, M.J. et al. (1 oto, H. et al. (1999) euss, U. et al. (2005) G	ingston, R.E. (1998) 998) <i>Biochemistry</i> 3 , C.D. (2000) <i>Nature</i> 200) <i>Cell</i> 103, 263-71 Schreiber, S.L. (2003) terson, C.L. (2003) 990) <i>Eur J Biochem</i> 1997) <i>Chromosoma</i> <i>J Biol Chem</i> 274, 2 3) <i>Nucleic Acids Re</i> Senes Dev 19, 472-8 <i>Inticancer Res</i> 26, 46	87, 17637-41. 2 403, 41-5. 2) <i>Chem Biol</i> 9, 116 <i>Nat Cell Biol</i> 5, 395 193, 701-13. 106, 348-60. 5543-9. IS 31, 878-85. 88.	57-73.		

1/1/24, 6:49 AM Species Reactivity	Phospho-Histone H3 (Ser10) Antibody (#9701) Datasheet Without Images Cell Signaling Technology Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	<b>WB:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Ke	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
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