Store at -20C

196#

Source:

**Cell Signaling** Acetyl-Histone H3 (Lys9/Lys14) Antibody T E C H N O L O G Y® Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

UniProt ID:

cellsignal.com

Entrez-Gene Id:

For Research Use Only. Not for Use in Diagnostic Procedures.						
Applications:	Reactivity:	Sensitivity:	MW (kDa):			

H M R Mk Sc	Endogenous	17	Rabbit	#P68431	8350
For c This	ptimal ChIP result antibody has been	s, use 10 µl of antib validated using Sir	ody and 10 µg of cl npleChIP <sup>®</sup> Enzyma	hromatin (approximately tic Chromatin IP Kits.	4 x 10 <sup>6</sup> cells) per IP.
Арр	olication			Dilutio	n
Wes	stern Blotting			1:1000	
Imm	nunoprecipitation			1:50	
Imm	nunohistochemistry	/ (Paraffin)		1:800 -	1:3200
Imm	nunofluorescence (	Immunocytochemis	stry)	1:1600	- 1:3200
Chr	omatin IP			1:50	
			5), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	lycerol. Store at –
			-	-	-
to Zebr 0% gy:	afish				
amin	o terminus of histo	one H3 acetylated o			
The 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 c ur3 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 a some organisms (2 hromosome conder s highly conserved a nospho-specific anti	around eight core h aromatin (1). The an luding acetylation, p ccur in response to actors and, therefore , 12, 15, and 20 (4, t Lys9 appears to ha ,3). Phosphorylation station during both among many specie bodies in mammalia	istone proteins (two each nino-terminal tails of core phosphorylation, methyla various stimuli and have e, gene expression (6). In 7). Histone H3 is primaril ave a dominant role in his n at Ser10, Ser28, and TI mitosis and meiosis (8-10 s and is catalyzed by the an cells reveals mitotic pl	h of H2A, H2B, H3, e histones undergo tion, and a direct effect on the n most species, y acetylated at Lys9, stone deposition and hr11 of histone H3 is 0). Phosphorylation e kinase haspin.
	H M R Mk Sc For of This App Wes Imm Imm Chr Supp 20°C ivity Acet lysin to Zebr 9% gy: On Poly amin pepti Mode The and vario ubiqu acce histo 14, 1 chro tighti at Th	H M R Mk ScEndogenousFor optimal ChIP result This antibody has beenApplicationWestern BlottingImmunoprecipitationImmunohistochemistryImmunofluorescence ( Chromatin IPSupplied in 10 mM sod 20°C. Do not aliquot the 20°C. Do not aliquot the lysine 9 or lysine 14 . TtoZebrafishP% gy:DnPolyclonal antibodies a amino terminus of histo peptide affinity chromati The nucleosome, made and H4), is the primary various posttranslation ubiquitination (2-5). The accessibility of chromati histone H2B is primarily 14, 18, 23, 27, and 56. chromatin assembly in tightly correlated with c at Thr3 of histone H3 is Immunostaining with ph	H M R Mk Sc       Endogenous       17         For optimal ChIP results, use 10 µl of antity This antibody has been validated using Sir         Application         Western Blotting         Immunoprecipitation         Immunofluorescence (Immunocytochemistic Chromatin IP         Supplied in 10 mM sodium HEPES (pH 7.5 20°C. Do not aliquot the antibody.         ivity       Acetyl-Histone H3 (Lys9/Lys14) Antibody of lysine 9 or lysine 14 . This antibody does not see to zebrafish         10%       Zebrafish         10%       Modulation of chromatin structure plays and The nucleosome, made up of DNA wound and H4), is the primary building block of chromatin and H4), is the primary building block of chromatin accessibility of chromatin to transcription fa histone H2B is primarily acetylated at Lys5 14, 18, 23, 27, and 56. Acetylation of H3 at chromatin assembly in some organisms (2 tightly correlated with chromosome conder at Thr3 of histone H3 is highly conserved a Immunostaining with phospho-specific anti	H M R Mk Sc       Endogenous       17       Rabbit         For optimal ChIP results, use 10 µl of antibody and 10 µg of cl       This antibody has been validated using SimpleChIP® Enzymation         Application       Western Blotting       Immunoprecipitation         Immunofluorescence (Immunocytochemistry)       Chromatin IP       Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 10 20°C. Do not aliquot the antibody.         ivity       Acetyl-Histone H3 (Lys9/Lys14) Antibody detects endogenous lysine 9 or lysine 14 . This antibody does not cross-react with the Zebrafish         1%       Zebrafish         1%       Modulation of chromatin structure plays an important role in the The nucleosome, made up of DNA wound around eight core hand H4), is the primary building block of chromatin (1). The antivorsus posttranslational modifications, including acetylation, pubiquitination (2-5). These modifications occur in response to accessibility of chromatin to transcription factors and, therefor histone H2B is primarily acetylated at Lys5, 12, 15, and 20 (4, 14, 18, 23, 27, and 56. Acetylation of H3 at Lys9 appears to ha chromatin assembly in some organisms (2,3). Phosphorylation tightly correlated with chromosome condensation during both at Thr3 of histone H3 is highly conserved among many specie Immunostaining with phospho-specific antibodies in mammalia	H M R Mk Sc       Endogenous       17       Rabbit       #P68431         For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.       Application       Dilutio         Mestern Blotting       1:1000       Immunoprecipitation       1:50         Immunohistochemistry (Paraffin)       1:800 -       Immunofluorescence (Immunocytochemistry)       1:1600         Chromatin IP       1:50       Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% g       20°C. Do not aliquot the antibody.         ivity       Acetyl-Histone H3 (Lys9/Lys14) Antibody detects endogenous levels of histone H3 only lysine 9 or lysine 14 . This antibody does not cross-react with other acetylated histones       to         10%       Zebrafish       Polyclonal antibodies are produced by immunizing animals with a synthetic peptide con amino terminus of histone H3 acetylated on lysines 9 and 14. Antibodies are purified by

Background References	<ol> <li>Workman, J.L. and Kingston, R.E. (1998) <i>Annu Rev Biochem</i> 67, 545-79.</li> <li>Hansen, J.C. et al. (1998) <i>Biochemistry</i> 37, 17637-41.</li> <li>Strahl, B.D. and Allis, C.D. (2000) <i>Nature</i> 403, 41-5.</li> <li>Cheung, P. et al. (2000) <i>Cell</i> 103, 263-71.</li> <li>Bernstein, B.E. and Schreiber, S.L. (2002) <i>Chem Biol</i> 9, 1167-73.</li> <li>Jaskelioff, M. and Peterson, C.L. (2003) <i>Nat Cell Biol</i> 5, 395-9.</li> <li>Thorne, A.W. et al. (1990) <i>Eur J Biochem</i> 193, 701-13.</li> <li>Hendzel, M.J. et al. (1997) <i>Chromosoma</i> 106, 348-60.</li> <li>Goto, H. et al. (1999) <i>J Biol Chem</i> 274, 25543-9.</li> <li>Preuss, U. et al. (2003) <i>Nucleic Acids Res</i> 31, 878-85.</li> <li>Dai, J. et al. (2005) <i>Genes Dev</i> 19, 472-88.</li> </ol>			
Species Reactivity	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	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP			
Cross-Reactivity Key	<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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