Revision 1							
Histone H4 (L64C1) Mouse mAb (ChIP Formulated)						Cell Signaling TECHNOLOGY®	
te (ChIP For					Orders:	877-616-CELL (2355) orders@cellsignal.com	
00					Support:	877-678-TECH (8324)	
#2960					Web:	info@cellsignal.com cellsignal.com	
For Research Use Only	/. Not for Us	e in Diagnostic Proce	edures.	3 Trask L	ane Danvers Ma	ssachusetts 01923 USA	
Applications: ChIP	Reactivity H	-	MW (kDa): 11	Source/Isotype: Mouse IgG	UniProt ID: #P62805	Entrez-Gene Id: 8359	
Product Usage Information		Application Chromatin IP			Dilution 1:50		
Storage		Supplied in 10 mM sodiu 0.02% sodium azide. St			10 0.	ycerol and less than	
Specificity / Sensitivity		Histone H4 (L64C1) Mouse mAb detects endogenous levels of total histone H4 protein. The antibody does not cross-react with other histones.					
Species predicted to react based on 100% sequence homology:		Mouse, Rat, Monkey, D. melanogaster, Xenopus, Zebrafish, Bovine, C. elegans, Horse					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human histone H4.					
Background		Modulation of chromatin The nucleosome, made and H4), is the primary by various posttranslationa ubiquitination (2-5). The accessibility of chromatin histone H2B is primarily 14, 18, 23, 27, and 56. A chromatin assembly in st tightly correlated with ch at Thr3 of histone H3 is Immunostaining with pho Thr3 of H3 in prophase a	up of DNA woun building block of I modifications, ir se modifications n to transcription acetylated at Lys acetylation of H3 come organisms romosome cond highly conserved ospho-specific ar	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 among many species a ntibodies in mammalian	tone proteins (two e to-terminal tails of co pophorylation, methy rious stimuli and ha gene expression (6) Histone H3 is prima e a dominant role in tt Ser10, Ser28, and tosis and meiosis (8 and is catalyzed by cells reveals mitotic	ach of H2A, H2B, H3, ore histones undergo ylation, and ve a direct effect on the). In most species, arily acetylated at Lys9, histone deposition and I Thr11 of histone H3 is B-10). Phosphorylation the kinase haspin.	
Background Refe	1	1. Workman, J.L. and Ki 2. Hansen, J.C. et al. (19 3. Strahl, B.D. and Allis, 4. Cheung, P. et al. (200 5. Bernstein, B.E. and S 6. Jaskelioff, M. and Pet 7. Thorne, A.W. et al. (19 8. Hendzel, M.J. et al. (1999) 10. Preuss, U. et al. (2005) G	998) Biochemistr C.D. (2000) Natu 0) Cell 103, 263- chreiber, S.L. (20 erson, C.L. (2003 990) Eur J Bioch 997) Chromosor J Biol Chem 274 3) Nucleic Acids	y 37, 17637-41. 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	y	Species reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Applications Key		ChIP: Chromatin IP					

1/1/24, 12:12 PM	Histone H4 (L64C1) Mouse mAb (ChIP Formulated) (#2960) Datasheet Without Images Cell Signaling Tech
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
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. 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 or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use 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.