Histone H4 (L64C1) Mouse mAb





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Applications: W, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 11	Source/Isotype: Mouse IgG1	UniProt ID: #P62805	Entrez-Gene Id: 8359	
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:300		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less that 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			ol and less than		
		For a carrier free (BSA and azide free) version of this product see product #42396.					
Specificity/Sen	sitivity	Histone H4 (L64C1) Mouse mAb detects endogenous levels of total histone H4 protein. The antibody does not cross-react with other histones.			in. The antibody		
Species predicted to react based on 100% sequence homology		D. melanogaster, Xenopus, Zebrafish, Bovine, C. elegans, Horse					
Source / Purific	ation	Monoclonal antibody i amino-terminal seque		unizing animals with a s ne H4.	ynthetic peptide co	prresponding to the	
Background		eukaryotes. The nucle H2A, H2B, H3, and H4) histones undergo vari methylation, and ubiq have a direct effect on expression (6). In mos H3 is primarily acetyla dominant role in histo at Ser10, Ser28, and Th both mitosis and meic many species and is ca	osome, made up of b, is the primary bui ous posttranslation uitination (2-5). The the accessibility of t species, histone H ted at Lys9, 14, 18, ne deposition and hr11 of histone H3 usis (8-10). Phospho atalyzed by the kina veals mitotic phosp	an important role in the DNA wound around eig lding block of chromatin al modifications, includi se modifications occur i chromatin to transcripti 2B is primarily acetylate 23, 27, and 56. Acetylatic chromatin assembly in s is tightly correlated with rylation at Thr3 of histor se haspin. Immunostair horylation at Thr3 of H3	ht core histone pro (1). The amino-ter ng acetylation, pho n response to vario on factors and, the d at Lys5, 12, 15, ar on of H3 at Lys9 ap ome organisms (2, chromosome conc ne H3 is highly cons ing with phospho-	oteins (two each of minal tails of core osphorylation, ous stimuli and erefore, gene nd 20 (4,7). Histone pears to have a 3). Phosphorylation densation during served among specific antibodies	
Background Re	ferences	2. Hansen, J.C. et al. (1 3. Strahl, B.D. and Allis 4. Cheung, P. et al. (20	999) Biochemistry 3 , C.D. (2000) Nature 00) Cell 103, 263-71 Schreiber, S.L. (2002 terson, C.L. (2003) 1990) Eur J Biochem 1997) Chromosoma) J Biol Chem 274, 2 003) Nucleic Acids R	2 403, 41-5. ?) <i>Chem Biol</i> 9, 1167-73. <i>Nat Cell Biol</i> 5, 395-9. 193, 701-13. a 106, 348-60. 5543-9. <i>es</i> 31, 878-85.	545-79.		
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot B	uffer			membrane with diluted with gentle shaking, ove		n 5% w/v nonfat	
Applications Ke	ey	W: Western Blotting I	HC-P: Immunohisto	chemistry (Paraffin)			

Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey	
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