Histone H3 (3H1) Rabbit mAb



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Applications: W, W-S	Reactivity: H M R Hm Mk Dm Z B Dg Pg	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information		Application Western Blotting Simple Western™			Dilution 1:1000 1:10	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Histone H3 (3H1) Rabbit Monoclonal Antibody detects endogenous levels of total histone H3 protein, including the Histone H3 variant CENP-A. This antibody does not cross-react with other core histones.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal residues of human histone H3.				
Background		eukaryotes. The nucle H2A, H2B, H3, and H4 histones undergo vari methylation, and ubic have a direct effect or expression (6). In mos H3 is primarily acetyla dominant role in histo at Ser10, Ser28, and T both mitosis and meio many species and is c	eosome, made up o o), is the primary but ious posttranslation quitination (2-5). The nate accessibility of st species, histone Hated at Lys9, 14, 18, one deposition and thr11 of histone H3 osis (8-10). Phospho atalyzed by the kindeveals mitotic phosphosphosphosphosphosphosphosphosphos	an important role in the f DNA wound around eighling block of chromatinal modifications, including block of chromatinal modifications occur in the chromatin to transcript I2B is primarily acetylate 23, 27, and 56. Acetylatichromatin assembly in sis tightly correlated with brylation at Thr3 of historylation at Thr3 of H3.	ght core histone pro n (1). The amino-ter ing acetylation, pho in response to vario ion factors and, the ed at Lys5, 12, 15, a on of H3 at Lys9 ap come organisms (2, o chromosome cond ne H3 is highly cond ning with phospho-	oteins (two each of minal tails of core asphorylation, bus stimuli and erefore, gene and 20 (4,7). Histone pears to have a management of the core and core a
Background References		 Workman, J.L. and Kingston, R.E. (1998) <i>Annu Rev Biochem</i> 67, 545-79. Hansen, J.C. et al. (1998) <i>Biochemistry</i> 37, 17637-41. Strahl, B.D. and Allis, C.D. (2000) <i>Nature</i> 403, 41-5. Cheung, P. et al. (2000) <i>Cell</i> 103, 263-71. Bernstein, B.E. and Schreiber, S.L. (2002) <i>Chem Biol</i> 9, 1167-73. Jaskelioff, M. and Peterson, C.L. (2003) <i>Nat Cell Biol</i> 5, 395-9. Thorne, A.W. et al. (1990) <i>Eur J Biochem</i> 193, 701-13. Hendzel, M.J. et al. (1997) <i>Chromosoma</i> 106, 348-60. Goto, H. et al. (1999) <i>J Biol Chem</i> 274, 25543-9. Preuss, U. et al. (2003) <i>Nucleic Acids Res</i> 31, 878-85. Dai, J. et al. (2005) <i>Genes Dev</i> 19, 472-88. 				

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 W: Western Blotting **W-S:** Simple Western™

Cross-Reactivity Key H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey Dm: D. melanogaster Z: Zebrafish B: Bovine Dg:

Dog Pg: Pig

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