

Histone H3 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk Z B Pg	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Histone H3 Antibody detects endogenous levels of total histone H3 protein. This antibody does not cross-react with other histones.				
Species predicted to react based on 100% sequence homology		D. melanogaster				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of human histone H3. Antibodies are purified by protein A and peptide affinity chromatography.				
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 T both mitosis and meiomany species and is care.	osome, made up o), is the primary bui ous posttranslation uitination (2-5). The the accessibility of t species, histone H ted at Lys9, 14, 18, ane deposition and hr11 of histone H3 osis (8-10). Phospho atalyzed by the kina veals mitotic phosp	an important role in the DNA wound around eiglding block of chromatinal modifications, includes modifications occur chromatin to transcript 12B is primarily acetylate 23, 27, and 56. Acetylatichromatin assembly in sistightly correlated with rylation at Thr3 of histose haspin. Immunostail thorylation at Thr3 of H3.	ght core histone pron (1). The amino-tering acetylation, phoin response to varioion factors and, the dat Lys5, 12, 15, aon of H3 at Lys9 apome organisms (2, a chromosome conding with phosphoning with with phosphoning with with phosphoning with with with with with with with with	oteins (two each of minal tails of core esphorylation, ous stimuli and erefore, gene and 20 (4,7). Histone pears to have a 3). Phosphorylation densation during served among specific antibodies
Background References		1. Workman, J.L. and Kingston, R.E. (1998) <i>Annu Rev Biochem</i> 67, 545-79. 2. Hansen, J.C. et al. (1998) <i>Biochemistry</i> 37, 17637-41. 3. Strahl, B.D. and Allis, C.D. (2000) <i>Nature</i> 403, 41-5. 4. Cheung, P. et al. (2000) <i>Cell</i> 103, 263-71. 5. Bernstein, B.E. and Schreiber, S.L. (2002) <i>Chem Biol</i> 9, 1167-73. 6. Jaskelioff, M. and Peterson, C.L. (2003) <i>Nat Cell Biol</i> 5, 395-9. 7. Thorne, A.W. et al. (1990) <i>Eur J Biochem</i> 193, 701-13. 8. Hendzel, M.J. et al. (1997) <i>Chromosoma</i> 106, 348-60. 9. Goto, H. et al. (1999) <i>J Biol Chem</i> 274, 25543-9. 10. Preuss, U. et al. (2003) <i>Nucleic Acids Res</i> 31, 878-85. 11. Dai, J. et al. (2005) <i>Genes Dev</i> 19, 472-88. 12. Hoover, L.L. et al. (2008) <i>Biochim Biophys Acta</i> 1783, 2279-86.				

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey Z: Zebrafish B: Bovine Pg: Pig

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