Acetyl-Histone H3 (Lys9/Lys14) Antibody



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

Applications: W, IP, IHC-P, IF-IC, ChIP	Reactivity: H M R Mk Sc	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information		For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		Application Western Blotting Immunoprecipitatior Immunohistochemis Immunofluorescence Chromatin IP	try (Paraffin)	nistry)		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sen	sitivity	Acetyl-Histone H3 (Lys9/Lys14) Antibody detects endogenous levels of histone H3 only when acetylated at lysine 9 or lysine 14 . This antibody does not cross-react with other acetylated histones.				
Species predict based on 100% homology		Zebrafish				
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of histone H3 acetylated on lysines 9 and 14. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		eukaryotes. The nucle H2A, H2B, H3, and H4 histones undergo var methylation, and ubie have a direct effect o expression (6). In mo H3 is primarily acetyl dominant role in hist at Ser10, Ser28, and both mitosis and mei many species and is o	eosome, made up o 4), is the primary bu rious posttranslation quitination (2-5). Th n the accessibility o st species, histone H ated at Lys9, 14, 18, one deposition and Thr11 of histone H3 losis (8-10). Phospho catalyzed by the kin eveals mitotic phosp	an important role in the f DNA wound around eig ilding block of chromatin hal modifications, includ ese modifications occur f chromatin to transcript 12B is primarily acetylate 23, 27, and 56. Acetylati chromatin assembly in s is tightly correlated with orylation at Thr3 of histo ase haspin. Immunostain phorylation at Thr3 of H3).	ght core histone pro in (1). The amino-tern ing acetylation, pho in response to vario ion factors and, the ed at Lys5, 12, 15, ar on of H3 at Lys9 ap come organisms (2,3 or chromosome cond ne H3 is highly cons ning with phospho-s	teins (two each of minal tails of core sphorylation, tus stimuli and refore, gene and 20 (4,7). Histone pears to have a B). Phosphorylation lensation during served among specific antibodies
Background Re	eferences	2. Hansen, J.C. et al. (3. Strahl, B.D. and Alli 4. Cheung, P. et al. (20 5. Bernstein, B.E. and	1998) <i>Biochemistry</i> is, C.D. (2000) <i>Natur</i> 000) <i>Cell</i> 103, 263-7 l Schreiber, S.L. (200 leterson, C.L. (2003) (1990) <i>Eur J Biocher</i> (1997) <i>Chromosom</i> 9) <i>J Biol Chem</i> 274, 2 2003) <i>Nucleic Acids</i> I	e 403, 41-5. 1. 2) <i>Chem Biol</i> 9, 1167-73. <i>Nat Cell Biol</i> 5, 395-9. n 193, 701-13. <i>a</i> 106, 348-60. 25543-9. <i>Res</i> 31, 878-85.	545-79.	

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 IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP		
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey Sc: S. cerevisiae		
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