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Histone H3 (3H1) Rabbit mAb (HRP Conjugate)



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Applications: Reactivity: W H M R Hm Mk Dm B Dg Pg	Sensitivity: Z Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information	Application Western Blotting			Dilution 1:1000	
Storage	Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity	Histone H3 (3H1) Rab The antibody does no		ugate) detects endogeno ther proteins.	ous levels of total hi	stone H3 protein.
Source / Purification	Monoclonal antibody carboxy-terminal resi		nunizing animals with a sone H3.	synthetic peptide c	orresponding to the
Description	peroxidase (HRP) via	its amine groups. T	body is conjugated to the he HRP conjugated antib ited antibody (Histone H	ody is expected to	exhibit the same
Background	eukaryotes. The nucl H2A, H2B, H3, and H4 histones undergo var methylation, and ubi 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 nal modifications, includ ese modifications occur f chromatin to transcript 42B is primarily acetylate 23, 27, and 56. Acetylati chromatin assembly in s is tightly correlated with orylation at Thr3 of histo ase haspin. Immunostalio bhorylation at Thr3 of H3).	ght core histone pro n (1). The amino-ter ing acetylation, pho in response to vario cion factors and, the ed at Lys5, 12, 15, a ion of H3 at Lys9 ap some organisms (2, n chromosome cono ne H3 is highly con ning 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 References	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 I Schreiber, S.L. (200 eterson, 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. Res 31, 878-85.		
Species Reactivity	Species reactivity is d	etermined by testin	ig in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer			membrane with diluted with gentle shaking, over		n 5% w/v nonfat
Applications Key	W: Western Blotting				

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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