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Tri-Methyl-Histone H3 (Lys9) (D4W1U) Rabbit mAb



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Applications: W, IP, IF-IC, FC-FP, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information		For optimal ChIP and ChIP-seq 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		Dilution		
		Western Blotting		1:1000		
		Immunoprecipitation			1:50	
		Immunofluorescence	(Immunocytochem	istry)	1:400	- 1:1600
		Flow Cytometry (Fixed	/Permeabilized)		1:50 -	1:200
		Chromatin IP			1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #76431.				
Specificity/Sen	sitivity	Tri-Methyl-Histone H3 (Lys9) (D4W1U) Rabbit mAb detects endogenous levels of histone H3 when tri- methylated on Lys9. This antibody shows some cross-reactivity with histone H3 that is di-methylated on Lys9, but does not cross-react with non-methylated or mono-methylated histone H3 Lys9. This antibody does not detect tri-methyl histone H3 Lys9 when the adjacent Ser10 residue is phosphorylated during mitosis. In addition, this antibody does not cross-react with methylated histone H3 Lys4, Lys27, Lys36, or Lys79.				
Species predict based on 100% homology		Bovine				
Source / Purific	ation			unizing animals with a s one H3 in which Lys9 is t		rresponding to
Background		block of chromatin. Or now been shown to be modifications, includir methylation is a major is crucial for the prope of histones H3 (Arg2, ' family of protein argin (PRMT4) (4). In contras but one of which conta Su(var)3-9, Enhancer of H3 (Lys4, 9, 27, 36, 79) silencing (4). Methylat enzymes containing m (BPTF, ING2), tudor do	riginally thought to e dynamic proteins, ng acetylation, phos determinant for th er programming of i 17, 26) and H4 (Arg sine methyltransfer st, a more diverse st ain a conserved cat f zeste, and Trithor and H4 (Lys20) and ion of these lysine r nethyl-lysine binding mains (53BP1), and s PAD14, LSD1, JMJD	stone proteins (H2A, H2 function as a static scaft undergoing multiple typ sphorylation, methylatio the genome during dever by promotes transcriptio ases (PRMTs), including t et of histone lysine meth alytic SET domain origin ax proteins. Lysine meth thas been implicated in residues coordinates the g modules such as chror WD-40 domains (WDR5 1, JMJD2, and JHDM1, ha	fold for DNA packag poes of post-translati n, and ubiquitinatio id inactive regions of elopment (2,3). Argi nal activation and is the co-activators PR hyltransferases has l ally identified in the hylation occurs prim both transcriptiona recruitment of chro nodomains (HP1, PI) (5-8). The discover	ing, histones have onal n (1). Histone of the genome and nine methylation mediated by a MT1 and CARM1 been identified, all <i>Drosophila</i> larily on histones l activation and pomatin modifying RC1), PHD fingers y of histone
Background Re	ferences	1. Peterson, C.L. and L 2. Kubicek, S. et al. (20 3. Lin, W. and Dent, S. 4. Lee, D.Y. et al. (2005 5. Daniel, J.A. et al. (20 6. Shi, X. et al. (2006) <i>A</i> 7. Wysocka, J. et al. (20	06) Ernst Schering I (. (2006) Curr Opin () Endocr Rev 26, 14 05) Cell Cycle 4, 919 Nature 442, 96-9.	Res Found Workshop, 1- Genet Dev 16, 137-42. 7-70. 9-26.	27.	

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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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