Pan-Methyl-Histone H3 (Lys9) Antibody





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Applications: W, IP, IF-IC, ChIP	Reactivity: H M R Mk Z	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit	UniProt ID: #P68431	Entrez-Gene Id: 8350	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence Chromatin IP	(Immunocytochem	istry)		Dilution 1:1000 1:25 1:500 1:25	
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.				ycerol. Store at –	
Specificity/Sen	sitivity		ys9. The antibody c	etects endogenous level loes not cross-react with			
the amir		the amino terminus of	clonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to mino terminus of histone H3 in which lysine 9 is di-methylated. Antibodies are purified by protein d peptide affinity chromatography.				
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, 1 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). Methylati enzymes containing m (BPTF, ING2), tudor do	iginally thought to e dynamic proteins, ig acetylation, phose determinant for the programming of 17, 26) and H4 (Arg ine methyltransfer st, a more diverse s ain a conserved cat if zeste, and Trithor and H4 (Lys20) and on of these lysine in thethyl-lysine bindin mains (53BP1), and PADI4, LSD1, JMJD	stone proteins (H2A, H2 function as a static scaft undergoing multiple ty sphorylation, methylatio e formation of active ar the genome during devo 3) promotes transcriptio ases (PRMTs), including t et of histone lysine meth alytic SET domain origin rax proteins. Lysine meth d has been implicated in residues coordinates the g modules such as chror l WD-40 domains (WDR5 1, JMJD2, and JHDM1, ha	fold for DNA packages of post-translat n, and ubiquitination id inactive regions of elopment (2,3). Argin nal activation and is the co-activators PR hyltransferases has ally identified in the hylation occurs prim both transcriptiona recruitment of chrimodomains (HP1, P) (5-8). The discover	ging, histones have ional on (1). Histone of the genome and inine methylation s mediated by a RMT1 and CARM1 been identified, all e <i>Drosophila</i> narily on histones al activation and omatin modifying RC1), PHD fingers ry of histone	
Background Re	eferences	1. Peterson, C.L. and L 2. Kubicek, S. et al. (20 3. Lin, W. and Dent, S.N 4. Lee, D.Y. et al. (2005 5. Daniel, J.A. et al. (2006) Λ 6. Shi, X. et al. (2006) Λ 7. Wysocka, J. et al. (20 8. Wysocka, J. et al. (20 9. Trojer, P. and Reinbe	06) <i>Ernst Schering /</i> . (2006) <i>Curr Opin) Endocr Rev</i> 26, 14 05) <i>Cell Cycle</i> 4, 919 <i>Jature</i> 442, 96-9. 06) <i>Nature</i> 442, 86 05) <i>Cell</i> 121, 859-7:	<i>Res Found Workshop</i> , 1- <i>Genet Dev</i> 16, 137-42. 7-70. 9-26. -90. 2.	27.		
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	d application (e.g.,	western blot).	
Western Blot E	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ir	n 5% w/v BSA, 1X	
Applications K	ey	W: Western Blotting IF ChIP: Chromatin IP	?: Immunoprecipita	ition IF-IC: Immunofluor	escence (Immunoc	ytochemistry)	

Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey Z: Zebrafish
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