## Di/Tri-Methyl-Histone H3 (Lys9) (6F12) Mouse mAb



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<b>Applications:</b> W, IP, IF-IC, ChIP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 17	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P68431	Entrez-Gene Id: 8350
Product Usage Information		For optimal ChIP results, use 5 μl of antibody and 10 μg of chromatin (approximately 4 x 10 <sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.				
		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence ( Chromatin IP	(Immunocytochem	istry)		<b>Dilution</b> 1:2000 1:100 1:100 1:100
Storage				), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	ml BSA, 50% glycer	ol and less than
Specificity/Sen	sitivity	Di/Tri-Methyl-Histone H3 (Lys9) (6F12) Mouse mAb detects endogenous levels of histone H3 when di- or tri-methylated on Lys9. The antibody also shows slight cross-reactivity with histone H3 when mono- methylated on Lys9. The antibody does not cross-react with methylated histone H3 Lys4, Lys27, Lys36 or Lys79.				
Species predict based on 100% homology		D. melanogaster, Zebra	afish, S. cerevisiae			
Source / Purific	ation	Monoclonal antibody is amino terminus of hist		unizing animals with a s /s9 is tri-methylated.	ynthetic peptide co	prresponding to the
Background		block of chromatin. Or now been shown to be modifications, includin 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 o H3 (Lys4, 9, 27, 36, 79) silencing (4). Methylati enzymes containing m (BPTF, ING2), tudor door	iginally thought to dynamic proteins, g acetylation, phos determinant for th r programming of 7, 26) and H4 (Arg ine methyltransfer, t, a more diverse s in a conserved cat f zeste, and Trithor and H4 (Lys20) and on of these lysine r ethyl-lysine bindin mains (53BP1), and PADI4, LSD1, JMJD	stone proteins (H2A, H2 function as a static scaft undergoing multiple typ sphorylation, methylatio e formation of active an the genome during deve by promotes transcriptio ases (PRMTs), including t et of histone lysine meth alytic SET domain origin fax proteins. Lysine meth has been implicated in residues coordinates the g modules such as chror l WD-40 domains (WDR5 1, JMJD2, and JHDM1, ha	old for DNA packages of post-translat n, and ubiquitination d inactive regions of elopment (2,3). Arg nal activation and i the co-activators PF nyltransferases has ally identified in the nylation occurs print both transcription recruitment of chr nodomains (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	ferences	1. Peterson, C.L. and La 2. Kubicek, S. et al. (200 3. Lin, W. and Dent, S.Y 4. Lee, D.Y. et al. (2005) 5. Daniel, J.A. et al. (2006) 6. Shi, X. et al. (2006) A 7. Wysocka, J. et al. (20 8. Wysocka, J. et al. (20 9. Trojer, P. and Reinbe	06) Ernst Schering . (2006) Curr Opin Endocr Rev 26, 14 05) Cell Cycle 4, 919 lature 442, 96-9. 06) Nature 442, 86 05) Cell 121, 859-72	<i>Res Found Workshop</i> , 1- <i>Genet Dev</i> 16, 137-42. 7-70. 9-26. 990. 2.	27.	

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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP		
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey		
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