## Di-Methyl-Histone H3 (Lys27) Antibody





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Applications: W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 17	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P68431	Entrez-Gene Id: 8350
Product Usage Information		Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:25	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store a 20°C. Do not aliquot the antibody.			ycerol. Store at –	
Specificity/Ser	nsitivity	methylated on Lys27.	The antibody does	etects endogenous level not cross-react with nor ody does not cross-react	n-methylated, mono	-methylated or tri-
Source / Purifi	cation		f histone H3 in whic	nmunizing animals with ch lysine 27 is di-methyla		
Background		block of chromatin. Ou now been shown to be modifications, includir methylation is a major is crucial for the prope of histones H3 (Arg2, family of protein argir (PRMT4) (4). In contras but one of which cont 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, pho r determinant for th er programming of 17, 26) and H4 (Arg ine methyltransfer st, a more diverse s ain a conserved cat of zeste, and Trithou and H4 (Lys20) and ion of these lysine bethyl-lysine bindin omains (53BP1), and s PADI4, LSD1, JMJD	istone proteins (H2A, H2 function as a static scaf , undergoing multiple ty sphorylation, methylatic ne formation of active ar the genome during dev 3) promotes transcriptio ases (PRMTs), including et of histone lysine meth calytic SET domain origin rax proteins. Lysine meth d has been implicated in residues coordinates the g modules such as chro d WD-40 domains (WDR5 1, JMJD2, and JHDM1, ha	fold for DNA packag rpes of post-translat on, and ubiquitination and inactive regions of elopment (2,3). Argi onal activation and is the co-activators PF hyltransferases has hally identified in the hylation occurs prin both transcriptiona e recruitment of chr modomains (HP1, P 5) (5-8). The discover	ging, histones have cional 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 R	eferences	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) / 7. Wysocka, J. et al. (20 8. Wysocka, J. et al. (20 9. Trojer, P. and Reinber	<ul> <li>106) Ernst Schering</li> <li>Y. (2006) Curr Opin</li> <li>Y. Endocr Rev 26, 14</li> <li>05) Cell Cycle 4, 919</li> <li>Vature 442, 96-9.</li> <li>106) Nature 442, 86</li> <li>105) Cell 121, 859-7.</li> </ul>	<i>Res Found Workshop</i> , 1- <i>Genet Dev</i> 16, 137-42. 7-70. 9-26. -90. 2.	-27.	
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ir	ו 5% w/v BSA, 1X
Applications K	ey	W: Western Blotting I	<b>P:</b> Immunoprecipita	ation		
Cross-Reactivi	ty Key	H: Human M: Mouse I	<b>R:</b> Rat <b>Mk:</b> Monkey			

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