Di-Methyl-Histone H3 (Lys9) Antibody					Orders: Support:	BIT-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324)	
6					Web:	info@cellsignal.com cellsignal.com	
#				3 Trask	Lane Danvers Ma	ssachusetts 01923 USA	
or Research Use Only	. Not for Use in D	Diagnostic Proce	edures.				
Applications: WB, IP, ChIP	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 17	Source: Rabbit	UniProt ID: #P68431	Entrez-Gene Id: 8350	
Product Usage Information	For o This a	For optimal ChIP results, use 20 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	Арр	lication			Dilution		
	Wes	tern Blotting			1:1000		
	Imm	unoprecipitation			1:50		
	Chro	matin IP			1:25		
Storage		ied in 10 mM sodiı Do not aliquot the), 150 mM NaCl, 10	00 μg/ml BSA and 50%	6 glycerol. Store at –	
Specificity / Sensi	on Ly	Di-Methyl-Histone H3 (Lys9) Antibody detects endogenous levels of histone H3 only when di-methylated on Lys9. The antibody does not cross-react with non-methylated, mono-methylated, or tri-methylated Lys9. In addition, the antibody does not cross-react with di-methylated or tri-methylated histone H3 Lys27.					
Source / Purificati	amino	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of histone H3 in which lysine 9 is di-methylated. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	block been acety deten progr and F methy more conse Tritho and h residu modu WD-4	of chromatin. Orig shown to be dynar lation, phosphoryla minant for the form amming of the gen l4 (Arg3) promotes (Itransferases (PRI diverse set of histo erved catalytic SET rax proteins. Lysin as been implicated les such as chrom 0 domains (WDR5	inally thought to fur nic proteins, under ation, methylation, a ation of active and ome during develo transcriptional act MTs), including the one lysine methyltra domain originally e methylation occu i n both transcriptio e recruitment of chr odomains (HP1, Pf o) (5-8). The discov	nction as a static sc going multiple types and ubiquitination (1 inactive regions of pment (2,3). Arginin ivation and is media co-activators PRMT ansferases has been dentified in the <i>Dro</i> rs primarily on histo ponal activation and s omatin modifying en RC1), PHD fingers (ery of histone deme	of post-translational). Histone methylation the genome and is cru e methylation of histo tted by a family of prot f1 and CARM1 (PRM n identified, all but one sophila Su(var)3-9, Er	ing, histones have now modifications, including in is a major ucial for the proper nes H3 (Arg2, 17, 26) tein arginine T4) (4). In contrast, a e of which contain a shancer of zeste, and 36, 79) and H4 (Lys20) ion of these lysine ethyl-lysine binding pomains (53BP1), and D14, LSD1, JMJD1,	
Background Refe	2. Kul 3. Lin 4. Lee 5. Da 6. Shi 7. Wy 8. Wy	bicek, S. et al. (200 , W. and Dent, S.Y. e, D.Y. et al. (2005) hiel, J.A. et al. (2006) , X. et al. (2006) <i>N</i> socka, J. et al. (20 socka, J. et al. (20	06) Ernst Schering (2006) Curr Opin Endocr Rev 26, 14 05) Cell Cycle 4, 91	.9-26. -90. 72.	op, 1-27.		
Spacios Dopativity				at least one appro			

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Species Reactivity
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Species reactivity is determined by testing in at least one approved application (e.g., western blot).

1/1/24, 8:24 AM Western Blot Buffer	Di-Methyl-Histone H3 (Lys9) Antibody (#9753) Datasheet Without Images Cell Signaling Technology 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	WB: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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