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#5427

Di-Methyl-Histone H3 (Lys79) (D15E8) XP[®] Rabbit mAb Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)

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Web:

	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Io 8350
Product Usage Information	For This	For optimal ChIP results, use 10 μ I 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.				
	Ар	plication			Dilution	
	We	estern Blotting			1:1000	
	Ch	romatin IP			1:50	
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than
Specificity / Sensitivi	whe tri-n	en di-methylated on	Lys79. The antibuted addition, the antibuted	P [®] Rabbit mAb detects ody does not cross-reac body does not cross-rea ys20.	t with non-methylated	, mono-methylated or
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide containing histone H3 di- methyl lysine 79.				
Background	bloc bee ace dete prog and met mor con Tritt and resi moo WD	ck of chromatin. Orig n shown to be dyna tylation, phosphoryl erminant for the form gramming of the gen H4 (Arg3) promote hyltransferases (PF re diverse set of hist served catalytic SE norax proteins. Lysin has been implicate dues coordinates the dules such as chrom -40 domains (WDR	ginally thought to amic proteins, und ation, methylatior nation of active an nome during deve s transcriptional a RMTs), including th cone lysine methy T domain original ne methylation oc d in both transcripte recruitment of co nodomains (HP1, 5) (5-8). The disc	istone proteins (H2A, H function as a static scaff ergoing multiple types of a and ubiquitination (1). Ind inactive regions of the elopment (2,3). Arginine activation and is mediate the co-activators PRMT1 ltransferases has been i by identified in the <i>Droso</i> curs primarily on histone obtional activation and sile thromatin modifying enz PRC1), PHD fingers (Bl overy of histone demeth thylation is a reversible	old for DNA packagin if post-translational me Histone methylation is e genome and is cruci methylation of histone d by a family of protei and CARM1 (PRMT ² dentified, all but one of <i>phila</i> Su(var)3-9, Enh es H3 (Lys4, 9, 27, 36 encing (4). Methylatio ymes containing meth PTF, ING2), tudor don ylases, such as PADI	g, histones have now odifications, including s a major ial for the proper es H3 (Arg2, 17, 26) in arginine I) (4). In contrast, a of which contain a ancer of zeste, and , 79) and H4 (Lys20) n of these lysine hyl-lysine binding nains (53BP1), and 4, LSD1, JMJD1,
Background Referen	2. K 3. L 4. L 5. D 6. S 7. V 8. V	ubicek, S. et al. (20	06) Ernst Scherir (. (2006) Curr Op. () Endocr Rev 26, (05) Cell Cycle 4, Vature 442, 96-9. (06) Nature 442, (05) Cell 121, 859	919-26. 86-90. Э-72.	,	
Species Reactivity	Spec	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).
Western Blot Buffer		DRTANT: For weste 5 Tween® 20 at 4°C		membrane with diluted	primary antibody in 5 ⁰	% w/v BSA, 1X TBS,

1/1/24, 9:13 AM	Di-Methyl-Histone H3 (Lys79) (D15E8) XP® Rabbit mAb (#5427) Datasheet Without Images Cell Signaling T		
Applications Key	WB: Western Blotting 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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