Revision 1							
PRMT4/CARM1 (C31G9) Rabbit mAb					Cell Signaling		
Store					Orders:	877-616-CELL (2355) orders@cellsignal.com	
6					Support:	877-678-TECH (8324)	
#3379					Web:	info@cellsignal.com cellsignal.com	
#				3 Trask L	ane Danvers Ma	ssachusetts 01923 USA	
For Research Use Only.	Not for Use in	Diagnostic Proce	edures.				
Applications: WB, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 63	Source/Isotype: Rabbit IgG	UniProt ID: #Q86X55	Entrez-Gene Id: 10498	
Product Usage	Арр	Application				Dilution	
Information	Wes	stern Blotting				1:1000	
	Imm	nunoprecipitation				1:50	
	Imm	unofluorescence (I	mmunocytochem	nistry)		1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensit		PRMT4/CARM1 (C31G9) Rabbit mAb detects endogenous levels of total PRMT4/CARM1 protein. This antibody does not cross-react with other PRMT proteins.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of the human PRMT4/CARM1 protein.					
Background	(PRM (Ado mone asym (1). N catal found Howe meth p300 meth heter interl sugg Alter termi appe PRM	AT) family of protein Met) to a guanidine pomethyl arginine, T metric di-methyl arginin yzed by enzymes s d within glycine-arg ever, PRMT4/CARI ionine-rich) motifs /CBP to enhance tu ylates many non-hi ogeneous nuclear eukin enhancer-bir est additional funct native mRNA splici nal regions (11). Pl ars in many distinc T1 to regulate its m	hs that catalyze the entrogen of argin Type I PRMTs (PF ginine while Type e, but not di-met such as PADI4 (2) inine rich (GAR) M1 and PRMT5 n (3). PRMT1 meth ranscriptional act istone proteins, in ribonucleoprotein ding factor 3 (ILF ions in transcripti ng produces thre RMT1 is localized t protein complex nethyltransferase		roup from S-adenos IT proteins catalyze an additional methyl d 7) produce symme verted to citrulline ti g PRMT1, methylate s RGG, RG, and R) ues within PGM (pro 4 and cooperates s tor proteins (4-6). In ear receptor HNF4 ne RNA binding prot and β receptors (10) processing and sign RMT1 isoforms that lasm, depending or	sylmethionine the formation of group to produce an etric di-methyl arginine hrough deimination e arginine residues KR repeats (1). line-, glycine-, ynergistically with a addition, PRMT1 (6), components of the ein Sam68 (8),). These interactions ial transduction. t differ in their amino- n cell type (12,13), and	
Background Refer	2. Wa 3. Ch 4. Wa 5. Stu 6. Ba	dford, M.T. and Ric ang, Y. et al. (2004) leng, D. et al. (2007) ang, H. et al. (2001) rahl, B.D. et al. (2001) rrero, M.J. and Ma chols, R.C. et al. (2	Science 306, 27 7) Mol. Cell 25, 7) Science 293, 85 01) Curr. Biol. 11 lik, S. (2006) Mol	1-83. 53-857. , 996-1000. . <i>Cell</i> 24, 233-243.			

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1/1/24, 2:20 PM	PRMT4/CARM1 (C31G9) Rabbit mAb (#3379) Datasheet Without Images Cell Signaling Technology
Species Reactivity	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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)
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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