PRMT4/CARM1 (3H2) Mouse mAb Image: Cell Signaling tell (2355) orders@cellsignal.com Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane Danvers Massachusetts 01923

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-IC	Reactivity H M R Mk		MW (kDa): 63	Source/Isotype: Mouse IgG1	UniProt ID: #Q86X55	Entrez-Gene Id: 10498	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (In	nmunocytochen	nistry)	1: 1:	ilution 1000 100 50 - 1:200	
Storage		Supplied in 10 mM sodiu 0.02% sodium azide. Sto				erol and less than	
Specificity / Sensitivity		PRMT4/CARM1 (3H2) Mouse mAb recognizes endogenous levels of total PRMT4/CARM1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the human CARM1 protein.					
Background		Protein arginine N-methy (PRMT) family of protein (AdoMet) to a guanidine mono-methyl arginine, Ty asymmetric di-methyl argi (1). Mono-methyl arginin catalyzed by enzymes su found within glycine-argi However, PRMT4/CARM methionine-rich) motifs (1) p300/CBP to enhance tra methylates many non-his heterogeneous nuclear r interleukin enhancer-bind suggest additional functi Alternative mRNA splicin terminal regions (11). PF appears in many distinct PRMT1 to regulate its m	s that catalyze the nitrogen of argir ype I PRMTs (PF ginine while Type e, but not di-mel uch as PADI4 (2) nine rich (GAR) 11 and PRMT5 m 3). PRMT1 meth anscriptional act stone proteins, ir ibonucleoproteir ding factor 3 (ILF ons in transcription g produces thre RMT1 is localized protein comple>	ne transfer of a methyl g nine (1). Though all PRM RMT1, 3, 4, and 6) add e II PRMTs (PRMT 5 an thyl arginine, can be cou- b. Most PRMTs, includin protein domains, such a nethylate arginine residi ylates Arg3 of histone H ivation by nuclear recep- ncluding the orphan nuc- n (hnRNP) particle (7), t F3) (9) and interferon-α onal regulation, mRNA e enzymatically active F d to the nucleus or cytop res. ILF3, TIS21 and the	group from S-adenosyl MT proteins catalyze th an additional methyl gu d 7) produce symmetri nverted to citrulline thro g PRMT1, methylate a as RGG, RG, and RXR ues within PGM (prolin H4 and cooperates sym tor proteins (4-6). In a lear receptor HNF4 (6 he RNA binding protein and β receptors (10). processing and signal PRMT1 isoforms that d plasm, depending on c	methionine ne formation of roup to produce an ic di-methyl arginine ough deimination arginine residues a repeats (1). ne-, glycine-, nergistically with ddition, PRMT1), components of the n Sam68 (8), These interactions transduction. liffer in their amino- rell type (12,13), and	
Background Refere		1. Bedford, M.T. and Ricl 2. Wang, Y. et al. (2004) 3. Cheng, D. et al. (2007 4. Wang, H. et al. (2001) 5. Strahl, B.D. et al. (200 6. Barrero, M.J. and Mali 7. Nichols, R.C. et al. (200 8. Côté, J. et al. (2000) J 0. Abramovich, C. et al. (200 2. Frankel, A. et al. (200 2. Herrmann, F. et al. (200 4. Lin, W.J. et al. (1996)	Science 306, 27) Mol. Cell 25, 7 Science 293, 85 1) Curr. Biol. 11 k, S. (2006) Mol 000) Exp. Cell Re Mol. Biol. Cell 14 J. Biol. Chem. 27 (1997) EMBO J. 0) Biochem. Bio 2) J. Biol. Chem. 005) J. Biol. Chem.	9-283. 1-83. 53-857. , 996-1000. . Cell 24, 233-243. es. 256, 522-532. , 274-287. 5, 19866-19876. 16, 260-266. bhys. Res. Commun. 2 277, 3537-3543. m. 280, 38005-38010.	78, 349-359.		

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

1/1/24, 8:13 AM	PRMT4/CARM1 (3H2) Mouse mAb (#12495) Datasheet Without Images Cell Signaling Technology
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	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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