PRMT4/CARM1 (C31G9) Rabbit mAb





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Applications: W, 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 Information		Application Western Blotting Immunoprecipitation Immunofluorescence (J	(mmunocytochem	istry)	1:10 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			ol and less than		
Specificity/Sensitivity		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 residues surrounding Ala55 of the human PRMT4/CARM1 protein.					
Background		methyltransferase (PRN adenosylmethionine (A catalyze the formation methyl group to produc produce symmetric di-r converted to citrulline t including PRMT1, meth domains, such as RGG, arginine residues within histone H4 and coopera nuclear receptor protei the orphan nuclear rece (hnRNP) particle (7), the and interferon-α and β regulation, mRNA proce enzymatically active PR to the nucleus or cytop	1) family of prote doMet) to a guanic of mono-methyl ar ce an asymmetric methyl arginine (1) hrough deiminatic ylate arginine resi RG, and RXR repea n PGM (proline-, gl ates synergistically ns (4-6). In additio eptor HNF4 (6), con eptor HNF4 (6), con esting and signal t MT1 isoforms that lasm, depending c and the leukemia-	RMT1) is a member of the ins that catalyze the tran- dine nitrogen of arginine rginine, Type I PRMTs (PI di-methyl arginine while . Mono-methyl arginine, on catalyzed by enzymes dues found within glycin ats (1). However, PRMT4/ ycine-, methionine-rich) with p300/CBP to enhai n, PRMT1 methylates ma mponents of the heterog- tein Sam68 (8), interleuk ese interactions suggest transduction. Alternative : differ in their amino-ter on cell type (12,13), and a associated BTG1 protein	asfer of a methyl gr e (1). Though all PRI RMT1, 3, 4, and 6) a Type II PRMTs (PRM but not di-methyl a such as PADI4 (2). e-arginine rich (GA CARM1 and PRMT5 motifs (3). PRMT1 r nce transcriptional any non-histone pro geneous nuclear rik in enhancer-bindin additional functior mRNA splicing pro minal regions (11).	oup from S- MT proteins dd an additional MT 5 and 7) arginine, can be Most PRMTs, R) protein 6 methylate methylates Arg3 of activation by oteins, including onucleoprotein g factor 3 (ILF3) (9) ns in transcriptional oduces three PRMT1 is localized stinct protein	
Background Re	ferences	1. Bedford, M.T. and Ric 2. Wang, Y. et al. (2004) 3. Cheng, D. et al. (2007) 4. Wang, H. et al. (2001) 5. Strahl, B.D. et al. (2006) 6. Barrero, M.J. and Mal 7. Nichols, R.C. et al. (2003) 8. Côté, J. et al. (2003) 9. Tang, J. et al. (2000) 10. Abramovich, C. et al 11. Scorilas, A. et al. (20 12. Frankel, A. et al. (20 13. Herrmann, F. et al. (1996)	Science 306, 279-2) Mol. Cell 25, 71-8) Science 293, 853- 1) Curr. Biol. 11, 99 lik, S. (2006) Mol. C 000) Exp. Cell Res. 2 Mol. Biol. Cell 14, 27 Biol. Chem. 275, 1 l. (1997) EMBO J. 10 000) Biochem. Biop 02) J. Biol. Chem. 2 2005) J. Biol. Chem.	283. 33. 857. 96-1000. 7e/1 24, 233-243. 256, 522-532. 74-287. 19866-19876. 6, 260-266. htys. Res. Commun. 278, 177, 3537-3543. 1. 280, 38005-38010.	349-359.		

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	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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