e at -20C	PRMT4/CARM1 Antibody	HE .	Cell Signaling тесныогоду <sup>®</sup>
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For Research	Use Only	Not for Us	e in Diagnostic	Procedures
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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 63	Source: Rabbit	UniProt ID: #Q86X55	Entrez-Gene Id: 10498
Product Usage Information		Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage	S 2	Supplied in 10 mM sodiu 20°C. Do not aliquot the a	m HEPES (pH 7.5 antibody.	i), 150 mM NaCl, 10	0 μg/ml BSA and 50% gl	ycerol. Store at –
Specificity / Sensiti	i <b>vity</b> F	PRMT4/CARM1 Antibody proteins. The antibody do	/ detects endogen bes not cross-read	ous levels of total P t with the isoform 2	RMT4/CARM1 isoform 1 of PRMT4/CARM1 or oth	and isoform 3 her PRMT proteins.
Source / Purificatio	n F c a	Polyclonal antibodies are carboxy terminus of the h affinity chromatography.	produced by imm numan PRMT4/CA	nunizing animals wit RM1 protein. Antibo	h a synthetic peptide con odies are purified by prot	responding to the ein A and peptide
Background	F n g ff f a d d f f r n s r r c p f ( t t t T	Protein arginine N-methy methyltransferase 1 (CAF proteins, which catalyze f guanidine nitrogen of arg ormation of mono-methy produce asymmetric di-m arginine (1). Mono-methy deimination performed by ound within glycine-argin However, PRMT4/CARM nethionine-rich) motifs (3 synergistically with p300/ receptor proteins (4). In a coactivators (p300/CBP, proteins (PABP1, Sam68 TARPP) (12), suggesting hymocyte maturation. Mi	Itransferase 4 (PF RM1), is a member the transfer of a m inine (1). There and arginine, type I F nethyl arginine, but not v enzymes such a nine rich (GAR) do 1 and PRMT5 ins B). PRMT4 methyl CBP and p160 co addition, PRMT4 m SRC-3) (5,6,7,8), , HuD, HuR) (9,10 g additional function ethylation of the s uggesting a role for	RMT4), also known a r of the protein argin tethyl group from S- re two types of PRM PRMTs (PRMT1, 3, 4 d type II PRMTs (PR di-methyl arginine, s PADI4 (2). Most of prains of proteins, s tead methylate argin ates Arg2, 17 and 2 activators to enhance nethylates many nor splicing factors (Sm 0,11), and thymocyte ons in transcriptiona plicing factor CA150 or PRMT4 in spinal r	as coactivator-associated ine N-methyltransferase adenosylmethionine (Add T proteins. While both ty 4 and 6) add an additiona MT 5 and 7) produce syn can be converted to citru i the PRMTs methylate a uch as RGG, RG and RX ine residues within PGW 6 of histone H3 and coop ce transcriptional activation- histone proteins, includ B, CA150, SAP49, UIC) e cyclic AMP-regulated pl regulation, mRNA proce by PRMT4 facilitates an nuscular atrophy (3).	arginine (PRMT) family of DMet) to a pes catalyze the al methyl group to mmetric di-methyl illine through rginine residues KR repeats (1). I (proline-, glycine-, berates on by nuclear ing transcriptional (3), RNA binding hosphoprotein essing and interaction with the
Background Refere	ences 1 2 3 4 5 6 6 7 8 9 10 11 12	<ol> <li>Bedford, M.T. and Rich</li> <li>Wang, Y. et al. (2004) .</li> <li>Cheng, D. et al. (2007)</li> <li>Chen, D. et al. (2000) .</li> <li>Chen, D. et al. (2005) .</li> <li>Lee, Y.H. et al. (2001) Sc</li> <li>Xu, W. et al. (2001) Sc</li> <li>Naeem, H. et al. (2006) .</li> <li>Feng, Q. et al. (2006) .</li> <li>Lee, J. and Bedford, M</li> <li>Côté, J. et al. (2003) <i>N</i></li> <li>Fujiwara, T. et al. (2004) <i>J</i>.</li> </ol>	hard, S. (2005) Mc Science 306, 279- Mol. Cell 25, 71- J. Biol. Chem. 275 Proc. Natl. Acad. ience 294, 2507-2 ) Mol. Cell Biol. 2 Mol. Cell Biol. 26, I.T. (2002) EMBO Iol. Biol. Cell 14, 2 5) Mol. Cell Biol. 2 Biol. Chem. 279, 1	l. Cell 18, 263-272. 283. 33. 5, 40810-40816. Sci. USA 102, 3611. 2511. 7, 120-134. 7846-7857. Rep. 3, 268-273. 74-287. 26, 2273-2285. 25339-25344.	·3616.	

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

**Species Reactivity** 

1/1/24, 11:03 AM	PRMT4/CARM1 Antibody (#4438) Datasheet Without Images Cell Signaling Technology 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.			
Western Blot Buffer				
Applications Key	WB: Western Blotting IP: Immunoprecipitation			
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>			
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