## PRMT1 (F339) Antibody Image: Coll Signaling to the coll of the coll

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

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 41	Source/Isotype: Rabbit	<b>UniProt ID:</b> #Q99873	Entrez-Gene Id: 3276
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM soo 20°C. Do not aliquot tl		5), 150 mM NaCl, 100 µg.	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Sensitivity		PRMT1 (F339) Antibody detects endogenous levels of total PRMT1 protein (all three isoforms). The antibody does not cross-react with other PRMT proteins.				
Species predicted to react based on 100% sequence homology		Bovine				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human PRMT1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		methyltransferase (PR adenosylmethionine ( catalyze the formation methyl group to produc produce symmetric di converted to citrulline including PRMT1, met domains, such as RGG arginine residues with histone H4 and coope nuclear receptor prote the orphan nuclear re (hnRNP) particle (7), th and interferon-a and [ regulation, mRNA pro enzymatically active P to the nucleus or cyto]	MT) family of prote AdoMet) to a guani of mono-methyl a uce an asymmetric -methyl arginine (1 through deiminati hylate arginine resi i, RG, and RXR repe in PGM (proline-, g rates synergisticall eins (4-6). In additic ceptor HNF4 (6), co te RNA binding pro 3 receptors (10). Th cessing and signal RMT1 isoforms tha plasm, depending of 1 and the leukemia	PRMT1) is a member of t ins that catalyze the trad dine nitrogen of arginin rginine, Type I PRMTs (P di-methyl arginine while ). Mono-methyl arginine on catalyzed by enzyme idues found within glycin ats (1). However, PRMT4 lycine-, methionine-rich) y with p300/CBP to enha mponents of the hetero tein Sam68 (8), interleuk ese interactions suggest transduction. Alternative t differ in their amino-te on cell type (12,13), and -associated BTG1 protein	nsfer of a methyl gr e (1). Though all PRI RMT1, 3, 4, and 6) a Pype II PRMTs (PRI , but not di-methyl s such as PADI4 (2). ne-arginine rich (GA /CARM1 and PRMT5 ) motifs (3). PRMT1 any non-histone pro geneous nuclear rik sin enhancer-bindin t additional functior e mRNA splicing pro rminal regions (11). appears in many dis	oup from S- MT proteins dd an additional MT 5 and 7) arginine, can be Most PRMTs, R) protein 5 methylate methylates Arg3 of activation by obteins, including ponucleoprotein g factor 3 (ILF3) (9) is in transcriptional oduces three PRMT1 is localized stinct protein
Background Re	ferences	<ol> <li>Bedford, M.T. and R</li> <li>Wang, Y. et al. (2004</li> <li>Cheng, D. et al. (2004</li> <li>Wang, H. et al. (2005</li> <li>Strahl, B.D. et al. (2006)</li> <li>Barrero, M.J. and Marger, M.J. and Marger, M.J. and Marger, M.J. and Marger, Nichols, R.C. et al. (2007)</li> <li>Tang, J. et al. (2007)</li> <li>Tang, J. et al. (2007)</li> <li>Abramovich, C. et al. (2007)</li> <li>Frankel, A. et al. (2007)</li> <li>Herrmann, F. et al.</li> <li>Lin, W.J. et al. (1996)</li> </ol>	<ul> <li>A) Science 306, 279- (77) Mol. Cell 25, 71- 1) Science 293, 853 (01) Curr. Biol. 11, 9 alik, S. (2006) Mol. ( 2000) Exp. Cell Res. Mol. Biol. Cell 14, 2 J. Biol. Chem. 275, al. (1997) EMBO J. 1 (000) Biochem. Bio (002) J. Biol. Chem. (2005) J. Biol. Chem. (2005) J. Biol. Chem (2005) J. Biol. Che</li></ul>	283. 83. •857. 96-1000. <i>Cell</i> 24, 233-243. 256, 522-532. 74-287. 19866-19876. 6, 260-266. <i>phys. Res. Commun.</i> 278 277, 3537-3543. <i>n.</i> 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			
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey			
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