e at -20C	PRMT1 (A33) Antibody	T E	Cell Signaling	
Stor		Orders:	877-616-CELL (2355) orders@cellsignal.com	
<u>6</u>		Support:	877-678-TECH (8324)	
#2 44		Web:	info@cellsignal.com cellsignal.com	

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 41	Source: Rabbit	UniProt ID: #Q99873	Entrez-Gene Id: 3276
Product Usage Information		plication				Dilution
internation		stern Blotting				1:1000
		nunoprecipitation				1:50
	Imr	nunofluorescence (I	mmunocytochemis	try)		1:100
Storage		plied in 10 mM sodii C. Do not aliquot the		i), 150 mM NaCl, 10	00 μg/ml BSA and 50%	glycerol. Store at –
Specificity / Sensitiv		/IT1 (A33) Antibody body does not cross	-		MT1 protein (all three is	oforms). The
Species predicted to react based on 100% sequence homology	б	ine				
Source / Purification					h a synthetic peptide co in A and peptide affinity	
Background	(PRI (Add mon asyr (1). cata foun How meti p300 meti hete inter sugg Alter term appo	MT) family of protein obtention of a guanidine or methyl arginine, T mmetric di-methyl arginin Mono-methyl arginin Myzed by enzymes s ad within glycine-arg vever, PRMT4/CARM hionine-rich) motifs (D/CBP to enhance tr hylates many non-hi progeneous nuclear fleukin enhancer-bin gest additional funct rnative mRNA splicin hinal regions (11). Pl	ns that catalyze the nitrogen of arginin Type I PRMTs (PRM reginine while Type I ne, but not di-methy such as PADI4 (2). inine rich (GAR) pr M1 and PRMT5 me (3). PRMT1 methyl ranscriptional activa istone proteins, inc ribonucleoprotein (iding factor 3 (ILF3 ions in transcription ng produces three RMT1 is localized t t protein complexes	transfer of a methy le (1). Though all PF (T1, 3, 4, and 6) ad I PRMTs (PRMT 5 a /l arginine, can be c Most PRMTs, includ otein domains, such thylate arginine resi ates Arg3 of histone ation by nuclear reco luding the orphan nu hnRNP) particle (7).) (9) and interferon- nal regulation, mRN enzymatically active o the nucleus or cyt s. ILF3, TIS21 and t	of the protein arginine N I group from S-adenosy RMT proteins catalyze ti d an additional methyl g and 7) produce symmetri onverted to citrulline thi ing PRMT1, methylate a as RGG, RG, and RXH idues within PGM (prolii e H4 and cooperates syn eptor proteins (4-6). In a uclear receptor HNF4 (6 , the RNA binding prote α and β receptors (10). A processing and signa e PRMT1 isoforms that of oplasm, depending on the he leukemia-associated	Almethionine the formation of group to produce an ric di-methyl arginine rough deimination arginine residues R repeats (1). ne-, glycine-, nergistically with addition, PRMT1 6), components of the in Sam68 (8), These interactions I transduction. differ in their amino- cell type (12,13), and
Background Referer	2. W 3. C 4. W 5. Si 6. Bi 7. N 8. C 9. Ta 10. A 11. Si	edford, M.T. and Ric (ang, Y. et al. (2004) heng, D. et al. (2001) (ang, H. et al. (2001) trahl, B.D. et al. (2001) trahl, B.D. et al. (2001) arrero, M.J. and Mal ichols, R.C. et al. (2003) horamovich, C. et al. corilas, A. et al. (2007) rankel, A. et al. (2007) (2007)	Science 306, 279- 7) Mol. Cell 25, 71- 9) Science 293, 853 91) Curr. Biol. 11, 9 10, S. (2006) Mol. (000) Exp. Cell Res Mol. Biol. Cell 14, 2 J. Biol. Chem. 275, (1997) EMBO J. 10 00) Biochem. Bioph	283. 83. -857. 96-1000. Cell 24, 233-243. . 256, 522-532. 74-287. 19866-19876. 6, 260-266. ys. Res. Commun.	278, 349-359.	

/24, 1:39 PM	PRMT1 (A33) Antibody (#2449) Datasheet Without Images Cell Signaling Technology 13. Herrmann, F. et al. (2005) <i>J. Biol. Chem.</i> 280, 38005-38010. 14. Lin, W.J. et al. (1996) <i>J. Biol. Chem.</i> 271, 15034-15044.			
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 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 			
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Alexa Fluor is a registered trademark of Life Technologies Corporation. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.			
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.			
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.			