e at -20C	UHRF1 (D6G8E) Rabbit mAb		Cell Signaling TECHNOLOGY®
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For Research Use Only	v. Not for Use i	n Diagnostic	Procedures.

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #Q96T88	Entrez-Gene Id: 29128
Product Usage Information	Aŗ	oplication			Dilution	
intormation	W	estern Blotting			1:1000	
	Im	munoprecipitation			1:50	
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than
Specificity / Sensitiv	not			endogenous levels of t antibody may recognize		
Source / Purificatior	n Mo res	noclonal antibody is p idues surrounding Val		unizing animals with a s IF1 protein.	synthetic peptide corre	esponding to
Background	box tha Top ma nev me reg fun loca ubic and and and het H3, euc hist rec pro der of r gro	c-binding protein of 90 t was first discovered poisomerase IIα (<i>TOP</i> , intenance of CpG DN wly synthesized DNA s thylated pericentrome ions of the genome (6 ctions to negatively re alization and repressiv quitin-like (UBL) doma d a RING finger doma d functions to properly diate faithful methylat erochromatin is media , a histone mark asso chromatin is further me tone H3, which is com ruits the histone deac widing an additional me nonstrate that UHRF1 repressive chromatin s wth and proliferation, east, lung, colon, and	b kDa (ICBP90) a as a CCAAT box 2A) and <i>Rb1</i> get A methylation, th strand after DNA eric heterochrom 5,7). However, U egulate the expre- ve functions of U ain, Tudor domai in. The SRA don v target the associ ion of the newly ated by the Tudo ciated with peric ediated by the P monly associate retylase 1 (HDAC nechanism for tra- L functions to link structures. These as research stud	ain-containing protein 1 and Nuclear Zinc Finger x-binding protein that re- hes (1,2). Later studies in the process of copying pro- replication (3-5). UHRF atin and is required for pro- HRF1 also localizes to de- ession of a subset of tun UHRF1 are both mediate in, PHD domain, SET ar- hain of UHRF1 binds wit ciated maintenance DN/ synthesized DNA strandor or domain, which binds se entromeric heterochrom HD domain, which binds and with euchromatin (13) C1) protein to target loci, anscriptional repression control to target loci, anscriptional repression control to the shown UHRF1 ar- dies have shown UHRF3 b) is associated with increase	Protein NP95 (NP95) gulates the expression nave shown that UHR re-existing methylation 1 localizes primarily w proper structure and fu- euchromatic regions o nor suppressor genes d by several protein d and RING finger-associ h high affinity to hemi- A methyltransferase D d (3-5). Additional targ- pecifically to tri-methy atin (10-12). Targeting a specifically to unmet b. In addition to recruiti resulting in deacetyla (3). Taken together, th histone modifications t e important for proper 1 overexpression in a	, is a nuclear protein n of the F1 is required for n patterns onto the with highly unction of these f the genome and (2,8,9). The lomains, including a ated (SRA) domain, -methylated DNA NMT1 protein to eting of UHRF1 to vlated Lys9 of histone g of UHRF1 to hylated Arg2 of ing DNMT1, UHRF1 tion of histones, and nese studies to the maintenance maintenance of cell number of cancers
Background Refere	2. J 3. L 4. S 5. E 6. F 7. F 8. C 9. K 10. N 11. L	Hopfner, R. et al. (200 Jeanblanc, M. et al. (204) Jnoki, M. et al. (2004) Sharif, J. et al. (2007) Bostick, M. et al. (2007) Papait, R. et al. (2007) Papait, R. et al. (2007) Daskalos, A. et al. (2008) Daskalos, A. et al. (2008) Nady, N. et al. (2011) Liu, X. et al. (2013) <i>Na</i> Rothbart, S.B. et al. (2013)	005) Oncogene Oncogene 23, 7 Nature 450, 908 7) Science 317, 1 Mol Biol Cell 18 10 Mol Biol Cell 19 11) Cancer 117, Nucleic Acids R J Biol Chem 286 at Commun 4, 15	24, 7337-45. 7601-10. -12. 1760-4. 3, 1098-106. 9, 3554-63. 1027-37. es 37, 493-505. 5, 24300-11. 663.		

1/1/24, 8:32 AM	UHRF1 (D6G8E) Rabbit mAb (#12387) Datasheet Without Images Cell Signaling Technology				
	 Rajakumara, E. et al. (2011) <i>Mol Cell</i> 43, 275-84. Babbio, F. et al. (2012) <i>Oncogene</i> 31, 4878-87. Kofunato, Y. et al. (2012) <i>Oncol Rep</i> 28, 1997-2002. Unoki, M. et al. (2010) <i>Br J Cancer</i> 103, 217-22. 				
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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	WB: Western Blotting IP: Immunoprecipitation				
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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