Store at -20C	DNMT3A (E9P2F) Rabbit mAb		<b>Cell Signaling</b> TECHNOLOGY®			
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<b>Applications:</b> W, IP, ChIP, ChIP- seq	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 85, 95, 130	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q9Y6K1	Entrez-Gene Id: 1788	
Product Usage Information	roduct Usage For optimal ChIP and formation 10 <sup>6</sup> cells) per IP. This			nd ChIP-seq results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x s antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.			
		Application Western Blotting Immunoprecipitation Chromatin IP	1		<b>Dilution</b> 1:1000 1:50 1:50		
Storage		Chromatin IP-seq 1:50 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.					
Specificity/Sensitivity		DNMT3A (E9P2F) Rabbit mAb recognizes endogenous levels of total DNMT3A protein. This antibody detects multiple isoforms of DNMT3A, including isoform 1 and isoform 2. This antibody does not cross-react with DNMT3B or other DNMT proteins.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human DNMT3A protein.					
Background		is critical for proper r families of mammalia (1,2). DNMT1 is const methyltransferase, tr replication. DNMT3A expression in adult s methylate previously tissues and its inactiv DNMT3A, and DNMT3 (HDAC1, HDAC2, Sin3 (HP1, SUV39H1) to m Improper DNA methy promoter CpG island development of canc contribute to the ons	egulation of gene e an DNA methyltrans itutively expressed i ansferring proper n and DNMT3B are st omatic tissues. DNM unmethylated regio vation affects neithe 3B together form a intain proper level: vlation contributes t s within tumor supp er. In addition, hypo et of cancer. DNMT	in mammalian cells is a kpression, genomic imp ferases have been ident n proliferating cells and nethylation patterns to r rongly expressed in eml IT3A and DNMT3B funct ons of DNA. DNMT2 is es r <i>de novo</i> nor maintenal protein complex that int epressor proteins (RB, T/ s of DNA methylation an o diseased states such a ressor genes correlates methylation of bulk gen , DNMT3A, and DNMT3 s leukemias, in addition	rinting and develop ified: DNMT1, DNM functions as a main newly synthesized D oryonic stem cells w ion as <i>de novo</i> met pressed at low leve nce DNA methylatic exacts with histone AZ-1), and heteroch d facilitate gene sil is cancer (1,2). Hype with gene silencing omic DNA correlate B are overexpressed	ement (1,2). Three IT2, and DNMT3 Intenance NA during vith reduced hyltransferases that els in adult somatic on. DNMT1, deacetylases romatin proteins encing (3-8). ermethylation of g and the es with and may d in many cancers,	
Background Re	eferences	3. Kim, G.D. et al. (200 4. Fuks, F. et al. (2001	Jagodziński, P.P. (20 02) <i>EMBO J.</i> 21, 4183 ) <i>EMBO J.</i> 20, 2536-4 (2004) <i>Biochem. Bio</i> al. (2000) <i>Nat. Genet</i> m, G.D. (2002) <i>EMBC</i> DNucleic Acids Res. D01) <i>Blood</i> 97, 1172- t al. (1999) <i>Nucleic A</i> ) <i>Gene</i> 236, 87-95.	05) Cell. Mol. Biol. Lett. -95. 4. 2. 25, 269-77. 0J. 21, 779-88. 31, 2305-12. 9. 			

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 ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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