WDR5 (D9E1I) Rabbit mAb		Cell Signaling TECHNOLOGY®	
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Applications: W, ChIP, ChIP-seq, C&R	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 37	Source/Isotype: Rabbit IgG	UniProt ID: #P61964	Entrez-Gene Id: 11091	
Product Usage Information		For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
		The CUT&RUN dilution	on was determined u	using CUT&RUN Assay Ki	t #86652.		
		Application Western Blotting Chromatin IP Chromatin IP-seq CUT&RUN			Dilution 1:1000 1:50 1:50 1:50		
Storage		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.		rol and less than			
Specificity/Sens	sitivity	WDR5 (D9E1I) Rabbit	mAb recognizes en	dogenous levels of total	WDR5 protein.		
Source / Purific	ation	Monoclonal antibody length human WDR5		nunizing animals with a	recombinant protei	n specific to full-	
Background		histone methyltransf transcriptional co-act proteins exist in man COMPASS-like compl found in distinct prot CXXC1 and DPY30. Th histone methyltransf subunit, menin (6). L Lys4 (2-6). MLL trans that Set1/COMPASS h	Terase complex, which tivator (1). While yea nmals: SET1A, SET1E exes and methylate tein complexes, all o nese subunits are re ferase activity (2-6). I ike yeast Set1, all six locations are found nistone methyltrans	ein was first identified in ch methylates histone H ist contain only one know 3, ML1, MLL2, MLL3, and histone H3 at Lys4 (2,3). f which share the comm quired for proper compl ML1 and MLL2 complex Set1-related mammalia in a large number of her ferase complexes play a	B at Lys4 and function of Set1 protein, six d MLL4, all of which These Set1-related on subunits WDR5, ex assembly and m es contain the addi n proteins methylar natological maligna critical role in leuke	ons as a Set1-related assemble into proteins are each RBBP5, ASH2L, odulation of tional protein te histone H3 at ancies, suggesting mogenesis (6).	
		complex assembly ar Lys4 methylation by amino-terminal tail for with a central cavity of arginine methyltrans recruitment of SET1/ regulatory sites. In co reduces WDR5 bindin histone H3 Lys4 meth with the SET domain for WDR5 binding the (9-11). WDR5 is also a the CHD8 chromatine	nd histone methyltra recruiting SET1/MLL or methylation (8). V that binds to histone ferases PRMT5 and MLL complexes and ontrast, asymmetric ng and results in dee hylation (8). Interest s of SET1/MLL prote at may act to regula a core subunit of the -remodeling comple		unctions as an effect i and presenting the seven-bladed WD4 rically di-methylate g to H3Arg2Me2-S H3 Lys4 at gene pro te H3 Arg2 (H3Arg2 ET1/MLL complexes binding pocket of V nity, setting up a poc t and subsequent H	tor of histone H3 e histone H3 I0 propeller domain d (H3Arg2Me2-S) by results in increased moters and distal Me2-A) by PRMT6 and reduced VDR5 also interacts otential competition 3 Lys4 methylation	
Background Re	ferences		8) <i>Curr Opin Cell Bic</i> latifard, A. (2005) <i>J C</i> ik, D.G. (2005) <i>J Biol</i> 7) <i>J Biol Chem</i> 282, 1 . (2004) <i>Mol Cell</i> 13, 012) <i>Epigenetics</i> 7, 8	b/20, 341-8. cell Biochem 95, 429-36. Chem 280, 41725-31. 3419-28. 587-97. 315-22.			

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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	W: Western Blotting ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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