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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
VV		Endogenous	290	Rabbit IgG	#Q9B1W2	29072
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM soo 0.02% sodium azide. S	dium HEPES (pH 7.5 Store at –20°C. Do n	i), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	ml BSA, 50% glycer	ol and less than
Specificity/Sen	sitivity	SETD2 (D5T1Q) Rabbit	mAb recognizes er	ndogenous levels of total	SETD2 protein.	
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly1294 of human SETD2 protein.				rresponding to
Background		SET domain-containin (KMT3A), huntingtin y expressed nuclear pro- histone H3 on lysine 3 of transcription elong, polymerase II (RNAPII subunit Rpb1 (2-4). Up elongation, SETD2 is r transcriptionally active FACT, which modulate transcriptional initiation proper splicing of intra- transcription, SETD2-co and MSH6) to chroma microsatellite instabili and/or inactivated in r liver cancer (11-13).	g protein 2 (SETD2 east partner B (HYE btein methyltransfe 6 (H3K36Me3) (1-3) ation, RNA splicing 1) that is hyper-phos pon hyper-phospho recruited and facilita e genes (2-4). H3K3 s nucleosome dyna on (5). In addition, H ons concurrent with dependent H3K36M tin during G1 and e ty and elevated leve multiple types of ca	or SET2), also known as h P), and huntingtin-intera rase that is responsible for SETD2-mediated H3K36 and DNA mismatch repa sphorylated on the C-terr rylation of the RNAPII CT ates tri-methylation of his 6Me3 then acts to recruit mics to facilitate transcri 13K36Me3 acts to recruit th transcriptional elongati e3 regulates DNA misma arly S phase (10). Loss of els of spontaneous muta ncer, including renal cell	ysine N-methyltran acting factor (HIF-1) or the majority of tr Me3 is critical for p ir (1). SETD2 interac ninal domain (CTD) D during activation stone H3 lysine 36 i the transcription e ption elongation an RNA-splicing prote on (3, 6-9). In addit tch repair by recrui SETD2 results in ar tions (10). SETD2 is carcinoma, leukem	sferase 3 A is a ubiquitously i-methylation of roper regulation its with RNA of the largest of transcriptional n the body of longation factor nd prevent cryptic ins and regulate ion to regulating ting MutSα (MSH2 n increase in often mutated ia, melanoma and
Background Re	ferences	1. Wagner, E.J. and Car 2. Sun, X.J. et al. (2005 3. Edmunds, J.W. et al. 4. Yoh, S.M. et al. (2005 5. Carvalho, S. et al. (20 6. Kolasinska-Zwierz, F 7. Luco, R.F. et al. (201 8. Pradeepa, M.M. et a 9. de Almeida, S.F. et a 10. Li, F. et al. (2013) <i>C</i> 11. Liao, L. et al. (2015 12. Chopra, M. and Bo 13. Kudithipudi, S. and	rpenter, P.B. (2012) , <i>J Biol Chem</i> 280, 3 (2008) <i>EMBO J</i> 27, 4 8) <i>Genes Dev</i> 22, 34 013) <i>Nucleic Acids</i> P. et al. (2009) <i>Nat C</i> 0) <i>Science</i> 327, 996 al. (2012) <i>PLoS Gene</i> al. (2011) <i>Nat Struct</i> <i>Cell</i> 153, 590-600. b) <i>Cancer Genet</i> 208 b) hlander, S.K. (2014) <i>E</i> d Jeltsch, A. (2014) <i>E</i>	Nat Rev Mol Cell Biol 13, 5261-71. 406-20. 422-34. Res 41, 2881-93. 5enet 41, 376-81. -1000. et 8, e1002717. Mol Biol 18, 977-83. , 206-14. Cancer Genet 208, 192-2 Biochim Biophys Acta 184	115-26. 205. 6, 366-79.	
Species Reactiv	/ity	Species reactivity is de	etermined by testin	g in at least one approve	d application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For west dry milk, 1X TBS, 0.1%	ern blots, incubate Tween® 20 at 4°C	membrane with diluted with gentle shaking, ove	primary antibody ir rnight.	15% w/v nonfat
Applications Ke	ey	W: Western Blotting				
Cross-Reactivit	у Кеу	H: Human M: Mouse I	R: Rat Mk: Monkey			

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