ឝ ដ្ក EHMT1 (E6Q8B) Rabbit mAb





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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H9B1	Entrez-Gene Id: 79813
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 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.				
Specificity/Sensitivity EHMT1 (E6Q8B) Rabbit mAb recognizes endogenous levels of total E		al EHMT1 protein.				
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala196 of human EHMT1 protein.			rresponding to	
Background		Euchromatic histone-ly is a histone methyltrar (H3K9me1 and H3K9m lysine methyltransfera Drosophila Su(var)3-9, <i>in vitro</i> , it is typically for together these protein dimethyltransferase, c EHMT1/G9a complex a heterodimerization an mediate the associatio G9a are components o E2F6 and CDP/cut (5-7) CEBP/β, HDAC1 (8), and to inhibit p53 activity, s However, a more recen expression was associa studies are required to Lastly, defects in EHMT syndrome), also known severe intellectual disa	vsine N-methyltran hsferase that specifies e2, respectively) in ses that contain a enhancer of zeste bund as a heterodin is function as the n reating transcription ilso contains Wiz, a d complex stability on of EHMT1/G9a meth d p53, specifically a suggesting that EH ht study found that ated with increased b better understand f1 are the cause of the as Kleefstra synd ability, autism, epile	sferase 1 (EHMT1), also r fically mono- and dimeth euchromatin. EHMT1 is conserved catalytic SET c and trithorax proteins (1 mer <i>in vivo</i> with its parale hajor euchromatic histor onally repressive marks t zinc finger protein that '(4). Wiz contains two Ctl ith the CtBP co-repressor criptional co-repressor c hylates several non-histo at lysine 373 (9). p53 Lys3 MT1/G9a inhibitors coul human G9a activated p5 d survival in lung cancer d the biological significar chromosome 9q subtele rome (KS). Common feat eptic seizures, microceph	referred to as G9a-li ylates lysine 9 of hi a member of a fam lomain originally id). Although EHMT1 og G9a, also known e H3 Lys9 mono- a hat facilitate gene s is required for EHM BP co-repressor bin r complex (4). In ad omplexes, such as t ne substrates, inclu 873 methylation wa d help treat p53-po 53 and that elevated patients, suggestin ne of this methylat omeric deletion syn- ures of KS patients ialy, and dysmorphi	ke protein 1 (GLP), stone H3 ily of histone entified in can homodimerize as EHMT2; nd silencing (2,3). The T1/G9a ding sites, which dition, EHMT1 and shose involving ding DNMT1, s initially reported sitive cancers (9). d G9a-p53 g that further ion event (10). drome (9q- are moderate to c features (11).
Background Ref	ferences	 Tachibana, M. et al. (Ueda, J. et al. (2006) Ogawa, H. et al. (2003) <i>N</i> Nishio, H. and Walsh Shankar, S.R. et al. (2 Bittencourt, D. et al. Rada, M. et al. (201 Iwase, S. et al. (201 	(2001) <i>J Biol Chem</i> (2002) <i>Genes Dev</i> 1 (2005) <i>Genes Dev</i> 1 <i>J Biol Chem</i> 281, 20 (2012) <i>Science</i> 296, 11 (2012) <i>Science</i> 296, 11 (2013) <i>Epigenetics</i> 8 (2012) <i>Proc Natl A</i> 7) <i>Oncogene</i> 36, 9 7) <i>J Neurosci</i> 37, 10	276, 25309-17. 6, 1779-91. 9, 815-26. 0120-8. 32-6. <i>Natl Acad Sci U S A</i> 101, 1 , 16-22. <i>cad Sci U S A</i> 109, 19673- 22-32. 0773-82.	1257-62. 8.	
Species Reactivi	ity	Species reactivity is de	termined by testin	g in at least one approve	d application (e.g.,	western blot).
Western Blot Bu	ıffer	IMPORTANT: For weste 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.	ı 5% w/v nonfat
Applications Ke	у	W: Western Blotting IP	e: Immunoprecipita	ation		

Cross-Reactivity Key	H: Human
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