

PRMT6 (D5A2N) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Rabbit IgG	UniProt ID: #Q96LA8	Entrez-Gene Id: 55170
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 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		PRMT6 (D5A2N) Rabbit mAb recognizes endogenous levels of total PRMT6 protein.				
Species predicted to react based on 100% sequence homology		Bovine, S. cerevisiae				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala62 of human PRMT6 protein.				
Background		methyltransferase (PR adenosylmethionine (the ability to mono-methylation states (1-generate an asymmet Type III methyltransfe PRMT that acts as bot methylation of historias a coactivator for transcription activatio	MŤ) family of prote AdoMet) to a guan ethylate arginine re 3). Mono-methylate ric di-methyl argini erases are only able h a transcriptional e H3 (Arg 2, Arg42) anscription factors, e H3 (Arg2) by PRM n (5-8). In addition	PRMT6) is a member of teins that catalyze the tradine nitrogen of argininesidues, but vary in their ed arginine residues are ne or by type II PRMTs to mono-methylate arguectivator and a coreprohistone H4 (Arg3), and including estrogen recet for prevents MLL methyl to its role in regulating the binding and processivity	nsfer of a methyl gi e (1). The three typi ability to generate further methylated o form a symmetric inine residues (1-3) ressor and catalyzes histone H2A at Argi eptor and NFkB, whi ation of histone H3 cranscription, PRMT	roup from S- es of PRMTs share differential I by type I PRMTs to c-dimethyl arginine. PRMT6 is a type I s the asymmetric di- 29 (2,4). PRMT6 acts le asymmetric di- at Lys4 and inhibits 6 methylates DNA
Background Re	ferences	1. Di Lorenzo, A. and Bedford, M.T. (2011) FEBS Lett 585, 2024-31. 2. Yang, Y. and Bedford, M.T. (2013) Nat Rev Cancer 13, 37-50. 3. Molina-Serrano, D. et al. (2013) Biochem Soc Trans 41, 751-9. 4. Casadio, F. et al. (2013) Proc Natl Acad Sci U S A 110, 14894-9. 5. Harrison, M.J. et al. (2010) Nucleic Acids Res 38, 2201-16. 6. Di Lorenzo, A. et al. (2014) Nucleic Acids Res 42, 8297-309. 7. Hyllus, D. et al. (2007) Genes Dev 21, 3369-80. 8. Smith, A.P. et al. (2009) Oncogene 28, 422-30. 9. El-Andaloussi, N. et al. (2006) Mol Cell 22, 51-62.				
Species Reactiv	rity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

Applications Key

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.

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat

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