

PRMT7 (D1K6R) Rabbit mAb



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Applications: W	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NVM4	Entrez-Gene Id: 54496
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		PRMT7 (D1K6R) Rabbit mAb recognizes endogenous levels of total PRMT7 protein.				
Species predict based on 100% homology		Bovine				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val233 of human PRMT7 protein.				
Protein arginine N-methyltransferase 7 (PRMT7) is a member of the protein arginine N-methyltransferase (PRMT) family of proteins that catalyze the transfer of a methyl group from S-adenosylmethionine (AdoMet) to a guanidine nitrogen of arginine (1). The three types of PRMTs is the ability to mono-methylate arginine residues, but vary in their ability to generate differential methylation states (1-3). Mono-methylated arginine residues are further methylated by type I PRI generate an asymmetric di-methyl arginine or by type II PRMTs to form a symmetric-dimethyl arginine to the protein arginine residues (1-3). Research states are only able to mono-methylate arginine residues (1-3). Research states indicate that PRMT7 is a type III PRMT that displays substrate specificity for an arginine-X-arginin (RXR) motif surrounded by several basic residues (4,5). PRMT7 interacts with a wide array of protein substrates and likely plays a role in many biological processes including pluripotency, neuronal differentiation, genomic instability, snRNP biogenesis, and breast cancer metastasis (6-11).						oup from S- es of PRMTs share differential by type I PRMTs to dimethyl arginine. Research studies ine-X-arginine array of protein y, neuronal
Background Re	eferences	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. Feng, Y. et al. (2013) J Biol Chem 288, 37010-25. 5. Feng, Y. et al. (2014) J Biol Chem 289, 32604-16. 6. Buhr, N. et al. (2008) Electrophoresis 29, 2381-90. 7. Dhar, S.S. et al. (2012) Genes Dev 26, 2749-62. 8. Verbiest, V. et al. (2008) FEBS Lett 582, 1483-9. 9. Gros, L. et al. (2003) Cancer Res 63, 164-71. 10. Gros, L. et al. (2006) Biochim Biophys Acta 1760, 1646-56. 11. Gonsalvez, G.B. et al. (2007) J Cell Biol 178, 733-40.				

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse Mk: Monkey

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