-20C

Store at

4762

ŧ

PRMT7 (D1K6R) Rabbit mAb Orders Suppo Web: 3 Trask Lane | Danvers



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

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/Sen	sitivity	PRMT7 (D1K6R) Rabbit mAb recognizes endogenous levels of total PRMT7 protein.						
Species predic based on 100% homology		Bovine						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val233 of human PRMT7 protein.						
Background		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 share 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 PRMTs to generate an asymmetric di-methyl arginine or by type II PRMTs to form a symmetric-dimethyl arginine. Type III methyltransferases are only able to mono-methylate arginine residues (1-3). Research studies indicate that PRMT7 is a type III PRMT that displays substrate specificity for an arginine-X-arginine (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).						
Background Re	eferences	 Di Lorenzo, A. and Bedford, M.T. (2011) <i>FEBS Lett</i> 585, 2024-31. Yang, Y. and Bedford, M.T. (2013) <i>Nat Rev Cancer</i> 13, 37-50. Molina-Serrano, D. et al. (2013) <i>Biochem Soc Trans</i> 41, 751-9. Feng, Y. et al. (2013) <i>J Biol Chem</i> 288, 37010-25. Feng, Y. et al. (2014) <i>J Biol Chem</i> 289, 32604-16. Buhr, N. et al. (2008) <i>Electrophoresis</i> 29, 2381-90. Dhar, S.S. et al. (2012) <i>Genes Dev</i> 26, 2749-62. Verbiest, V. et al. (2008) <i>FEBS Lett</i> 582, 1483-9. Gros, L. et al. (2003) <i>Cancer Res</i> 63, 164-71. Gros, L. et al. (2006) <i>Biochim Biophys Acta</i> 1760, 1646-56. Gonsalvez, G.B. et al. (2007) <i>J Cell Biol</i> 178, 733-40. 						
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer		DRTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human M: Mouse Mk: Monkey						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		All other trademarks a more information.	re the property of	their respective owners.	Visit cellsignal.com	/trademarks for		

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.