Store at -20C

3432

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NRMT (D9D6P) Rabbit mAb Orders: Support: Web:



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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BV86	Entrez-Gene Id: 28989		
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 tha 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than		
Specificity/Sensitivity		NRMT (D9D6P) Rabbit mAb recognizes endogenous levels of total NRMT protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu49 of human NRMT protein.						
Background		N-terminal RCC1 methyltransferase (NRMT), formerly known as methyltransferase-like protein 11A (METTL11A), is a member of the methyltransferase 11 family of proteins and is the first α-N- methyltransferase to be discovered in humans (1-3). Amino-terminal methylation of free α-amino groups is a post-translational modification where an initiating Met residue is cleaved and the exposed α-amino group is mono-, di-, or trimethylated by NRMT (4). NRMT methylates proteins containing an amino-terminal Met-X-Pro-Lys motif, where X is an alanine, proline, or serine residue (4). Substrates of NRMT include the Ran guanine nucleotide-exchange factor (RCC1), SET/TAF-1/PHAP-II, retinoblastoma (Rb), and CENP-B (3-6). α-N-methylation of RCC1 is required for efficient binding to chromatin, securing normal bipolar spindle formation and chromosome segregation (3,5). α-N-methylation of CENP-B also appears to regulate CENP-B binding to centromeric DNA (6).						
Background Ro	eferences	1. Wrighton, K.H. (2010) <i>Nat Rev Mol Cell Biol</i> 11, 604-5. 2. Webb, K.J. et al. (2010) <i>Biochemistry</i> 49, 5225-35. 3. Tooley, C.E. et al. (2010) <i>Nature</i> 466, 1125-8. 4. Petkowski, J.J. et al. (2012) <i>Biochemistry</i> 51, 5942-50. 5. Chen, T. et al. (2007) <i>Nat Cell Biol</i> 9, 596-603. 6. Dai, X. et al. (2013) <i>J Proteome Res</i> 12, 4167-75.						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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