

s 8665

Mono-Methyl-Histone H3 (Lys36) Antibody



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

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information	2	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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Mono-Methyl-Histone H3 (Lys36) Antibody recognizes endogenous levels of histone H3 only when mono-methylated at Lys36. The antibody does not cross-react with non-methylated, di-methylated, or tri-methylated Lys36. In addition, the antibody does not cross-react with mono-methylated histone H3 Lys4, Lys9, Lys27, or Lys79.				
Source / Purifi	cation		mono-methylated	nmunizing animals with a Lys36 of human histone raphy.		
Background		block of chromatin. Or now been shown to be modifications, includin methylation is a major is crucial for the prope of histones H3 (Arg2, 1 family of protein argin (PRMT4) (4). In contras but one of which conta Su(var)3-9, Enhancer o H3 (Lys4, 9, 27, 36, 79) silencing (4). Methylati enzymes containing m (BPTF, ING2), tudor door	iginally thought to dynamic proteins g acetylation, pho determinant for the r programming of 7, 26) and H4 (Argine methyltransfer t, a more diverse sain a conserved caf zeste, and Tritholand H4 (Lys20) an on of these lysine ethyl-lysine bindin mains (53BP1), and PADI4, LSD1, JMJE	istone proteins (H2A, H2 function as a static scaf , undergoing multiple ty sphorylation, methylation he formation of active ar the genome during dev 3) promotes transcription rases (PRMTs), including tet of histone lysine methe talytic SET domain originar trax proteins. Lysine methe d has been implicated in tresidues coordinates the ag modules such as chroid d WD-40 domains (WDR5 11, JMJD2, and JHDM1, has	fold for DNA packar pes of post-translater, and ubiquitination on, and ubiquitination dinactive regions elopment (2,3). Argunal activation and in the co-activators Phyltransferases has hyltransferases has hylation occurs print by both transcription e recruitment of chr modomains (HP1, F 5) (5-8). The discove	ging, histones have tional on (1). Histone of the genome and inine methylation s mediated by a RMT1 and CARM1 been identified, all e Drosophila narily on histones al activation and comatin modifying PRC1), PHD fingers ry of histone
Background References		 Peterson, C.L. and Laniel, M.A. (2004) Curr Biol 14, R546-51. Kubicek, S. et al. (2006) Ernst Schering Res Found Workshop, 1-27. Lin, W. and Dent, S.Y. (2006) Curr Opin Genet Dev 16, 137-42. Lee, D.Y. et al. (2005) Endocr Rev 26, 147-70. Daniel, J.A. et al. (2005) Cell Cycle 4, 919-26. Shi, X. et al. (2006) Nature 442, 96-9. Wysocka, J. et al. (2006) Nature 442, 86-90. Wysocka, J. et al. (2005) Cell 121, 859-72. Trojer, P. and Reinberg, D. (2006) Cell 125, 213-7. 				

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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