

9226

Tri-Methyl-Histone H3 (Lys27) Antibody



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

Applications: W, IP, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information	•	Application Western Blotting Immunoprecipitation Chromatin IP			Dilution 1:1000 1:50 1:25	
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		Tri-Methyl-Histone H3 (Lys27) Antibody detects endogenous levels of histone H3 only when trimethylated on Lys27. The antibody does not cross-react with non-methylated, mono-methylated or dimethylated Lys27. In addition, the antibody does not cross-react with mono-methylated, di-methylated or tri-methylated histone H3 at Lys4, Lys9, Lys36 or Histone H4 at Lys20.				
Species predict based on 100% homology		Xenopus				
Source / Purification		Polyclonal antibodies ar the amino terminus of h affinity chromatograph	nistone H3 in whic			
Background		The nucleosome, made block of chromatin. Orig now been shown to be modifications, including methylation is a major of is crucial for the proper of histones H3 (Arg2, 17 family of protein arginin (PRMT4) (4). In contrast, but one of which contain Su(var)3-9, Enhancer of H3 (Lys4, 9, 27, 36, 79) as ilencing (4). Methylation enzymes containing metal (BPTF, ING2), tudor dom demethylases, such as freversible epigenetic military in the succession of the succession	ginally thought to dynamic proteins, g acetylation, pho- determinant for the programming of 7, 26) and H4 (Argine methyltransfer and a conserved cate zeste, and Trithon and H4 (Lys20) and thyl-lysine bindin pains (53BP1), and PADI4, LSD1, JMJD	function as a static scafe undergoing multiple ty sphorylation, methylation for formation of active are the genome during dev (3) promotes transcription ases (PRMTs), including et of histone lysine methylalytic SET domain originax proteins. Lysine methylalytic set of histone implicated in residues coordinates the genodules such as chrold WD-40 domains (WDR5)	fold for DNA packages of post-translaten, and ubiquitination of inactive regions elopment (2,3). Argunal activation and it the co-activation and it the co-activators Phyltransferases has ally identified in the hylation occurs print both transcription is produced in the recruitment of chromodomains (HP1, P5) (5-8). The discover	ging, histones have ional on (1). Histone of the genome and inine methylation is mediated by a RMT1 and CARM1 been identified, all been identified, all enarily on histones al activation and omatin modifying RC1), PHD fingers by of histone
Background References		1. Peterson, C.L. and Laniel, M.A. (2004) <i>Curr Biol</i> 14, R546-51. 2. Kubicek, S. et al. (2006) <i>Ernst Schering Res Found Workshop</i> , 1-27. 3. Lin, W. and Dent, S.Y. (2006) <i>Curr Opin Genet Dev</i> 16, 137-42. 4. Lee, D.Y. et al. (2005) <i>Endocr Rev</i> 26, 147-70. 5. Daniel, J.A. et al. (2005) <i>Cell Cycle</i> 4, 919-26. 6. Shi, X. et al. (2006) <i>Nature</i> 442, 96-9. 7. Wysocka, J. et al. (2006) <i>Nature</i> 442, 86-90. 8. Wysocka, J. et al. (2005) <i>Cell</i> 121, 859-72. 9. Trojer, P. and Reinberg, D. (2006) <i>Cell</i> 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 ChIP: Chromatin IP

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

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