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Phospho-Histone H3 (Thr3) (D5G1I) Rabbit



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Applications: W, IF-IC, FC-FP, ChIP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information		For optimal ChIP results, use 5 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		Application Western Blotting Immunofluorescence Flow Cytometry (Fixed Chromatin IP		istry)		Dilution 1:1000 1:3200 1:200 1:100
Storage		0.02% sodium azide. S	Store at –20°C. Do n	i), 150 mM NaCl, 100 μg/ ot aliquot the antibody.		ol and less than
				sion of this product see		
Specificity/Sens	sitivity	Phospho-Histone H3 (Thr3) (D5G1I) Rabbit mAb recognizes endogenous levels of histone H3 protein only when phosphorylated at Thr3.				
Species predict based on 100% homology		Rat, Zebrafish, S. cere	visiae			
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr3 of human histone H3 protein.				
Background		eukaryotes. The nucle H2A, H2B, H3, and H4 histones undergo var methylation, and ubic have a direct effect or expression (6). In mos H3 is primarily acetyla dominant role in histo at Ser10, Ser28, and T both mitosis and meio many species and is c	eosome, made up of by, is the primary bui ious posttranslation quitination (2-5). The the accessibility of st species, histone H ated at Lys9, 14, 18, one deposition and hr11 of histone H3 osis (8-10). Phospho atalyzed by the kina eveals mitotic phosp	an important role in the DNA wound around eig lding block of chromatir ise modifications, includi see modifications occur i chromatin to transcripti I2B is primarily acetylate 23, 27, and 56. Acetylatic chromatin assembly in s is tightly correlated with rylation at Thr3 of histor ise haspin. Immunostair horylation at Thr3 of H3.	Int core histone pro o (1). The amino-ter ng acetylation, pho n response to vario ion factors and, the d at Lys5, 12, 15, au on of H3 at Lys9 ap ome organisms (2, chromosome cond ne H3 is highly cons ning with phospho-	oteins (two each of minal tails of core osphorylation, ous stimuli and erefore, gene and 20 (4,7). Histone pears to have a 3). Phosphorylation densation during served among specific antibodies
Background Re	ferences	2. Hansen, J.C. et al. (1 3. Strahl, B.D. and Allis 4. Cheung, P. et al. (20	998) <i>Biochemistry</i> s, C.D. (2000) <i>Naturo</i> 000) <i>Cell</i> 103, 263-71 Schreiber, S.L. (2002 eterson, C.L. (2003) 1990) <i>Eur J Biochen</i> (1997) <i>Chromosom</i> 9) <i>J Biol Chem</i> 274, 2 003) <i>Nucleic Acids R</i>	e 403, 41-5. 2) <i>Chem Biol</i> 9, 1167-73. <i>Nat Cell Biol</i> 5, 395-9. 193, 701-13. a 106, 348-60. 5543-9. <i>Pes</i> 31, 878-85.	545-79.	

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 IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP
Cross-Reactivity Key	H: Human M: Mouse
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