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Phospho-Histone H3 (Ser10) (D7N8E) XP[®] Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350	
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50	
Storage		Supplied in PBS (pH 7.2), antibody. Protect from lig		zide and 2 mg/ml BS/	A. Store at 4°C. Do not aliquot the	
Specificity/Sensit	ivity	Phospho-Histone H3 (Ser10) (D7N8E) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of histone H3 protein only when phosphorylated at Ser10. This antibody detects phosphorylation at Ser10 in the presence of acetylated or methylated Lys9, but not in the presence of phosphorylated Thr11. This antibody does not cross-react with histone H3 phosphorylated at Ser28.				
Species predicted based on 100% se homology		Hamster, Xenopus, S. cer	evisiae			
Source / Purificat	ion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding phosphorylated Ser10 of human histone H3 protein.				
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Histone H3 (Ser10) (D7N8E) XP [®] Rabbit mAb #53348.				
Background		H2A, H2B, H3, and H4), is histones undergo variou methylation, and ubiquit have a direct effect on th expression (6). In most s H3 is primarily acetylated dominant role in histone at Ser10, Ser28, and Thr both mitosis and meiosis	ome, made up of DNA wo s the primary building blo s posttranslational modifi- ination (2-5). These modifi- e accessibility of chroma pecies, histone H2B is pri d at Lys9, 14, 18, 23, 27, a deposition and chromat 1 of histone H3 is tightly s (8-10). Phosphorylation lyzed by the kinase hasp als mitotic phosphorylati	bund around eight co bock of chromatin (1). fications, including ac ifications occur in res tin to transcription fa imarily acetylated at l and 56. Acetylation of in assembly in some correlated with chro at Thr3 of histone H3 in. Immunostaining w	bre histone proteins (two each of The amino-terminal tails of core cetylation, phosphorylation, ponse to various stimuli and actors and, therefore, gene Lys5, 12, 15, and 20 (4,7). Histone H3 at Lys9 appears to have a organisms (2,3). Phosphorylation mosome condensation during B is highly conserved among with phospho-specific antibodies	
Background Refe	rences	1. Workman, J.L. and Kin 2. Hansen, J.C. et al. (199 3. Strahl, B.D. and Allis, C 4. Cheung, P. et al. (2000 5. Bernstein, B.E. and Scl 6. Jaskelioff, M. and Pete 7. Thorne, A.W. et al. (199 8. Hendzel, M.J. et al. (199 9. Goto, H. et al. (1999) / 10. Preuss, U. et al. (2005) Ge	8) <i>Biochemistry</i> 37, 1763 C.D. (2000) <i>Nature</i> 403, 41) <i>Cell</i> 103, 263-71. hreiber, S.L. (2002) <i>Chem</i> rson, C.L. (2003) <i>Nat Cell</i> 90) <i>Eur J Biochem</i> 193, 70 97) <i>Chromosoma</i> 106, 34 <i>Biol Chem</i> 274, 25543-9. 8) <i>Nucleic Acids Res</i> 31, 8	7-41. -5. <i>Biol</i> 9, 1167-73. <i>Biol</i> 5, 395-9. 1-13. 8-60.	79.	
Species Reactivit	у	Species reactivity is dete	rmined by testing in at le	ast one approved ap	plication (e.g., western blot).	
Applications Key		FC-FP: Flow Cytometry (F	ixed/Permeabilized)			
Cross-Reactivity	Key	H: Human M: Mouse R: F	Rat Mk: Monkey			

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