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Phospho-Histone H3 (Ser10) (D2C8) XP[®] Rabbit mAb (Alexa Fluor[®] 555 Conjugate)

Applications: IF-IC	Reactivity: H M R Mk Z	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350	
Product Usage Information	App Imm	lication unofluorescence	(Immunocytochemistry)		Dilution 1:50	
Storage	Supp antibe	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity / Sensitiv	vity Phos levels phos	Phospho-Histone H3 (Ser10) (D2C8) XP [®] Rabbit mAb (Alexa Fluor [®] 555 Conjugate) detects endogenous levels of histone H3 only when phosphorylated at Ser10. The antibody does not cross-react with other phosphorylated histones or with acetylated histones.				
Source / Purification	n Mono residu optim	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser10 of human histone H3. This antibody was conjugated to Alexa Fluor [®] 555 under optimal conditions with an F/P ratio of 2-6.				
Product Description	This (tester H3 (S rat, a 555 (Cell Signaling Tea d in-house for im Ser10) (D2C8) XF nd monkey. CST Conjugate) will als	chnology (CST) Antibody was munofluorescence in human [®] Rabbit mAb #3377 reacts expects that Phospho-Histor so recognize phospho-histor	s conjugated to Alexa Fluor [®] 555 fluc and mouse cells. The unconjugated with phospho-histone H3 (Ser10) fro he H3 (Ser10) (D2C8) XP [®] Rabbit m. he H3 (Ser10) in these species.	rrescent dye and Phospho-Histone m human, mouse, Ab (Alexa Fluor [®]	
Background	Modu The r and H variou ubiqu acces histor 14, 1: chror tightly at Th Immu Thr3	lation of chromat nucleosome, mad 14), is the primary us posttranslation litination (2-5). Th ssibility of chroma he H2B is primari 8, 23, 27, and 56 natin assembly in y correlated with r3 of histone H3 i unostaining with p of H3 in prophase	tin structure plays an importa le up of DNA wound around e y building block of chromatin hal modifications, including ac nese modifications occur in re atin to transcription factors an ly acetylated at Lys5, 12, 15, . Acetylation of H3 at Lys9 ap n some organisms (2,3). Phose chromosome condensation d is highly conserved among mo phospho-specific antibodies in e and its dephosphorylation of	nt role in the regulation of transcripti- eight core histone proteins (two each (1). The amino-terminal tails of core cetylation, phosphorylation, methylat esponse to various stimuli and have a id, therefore, gene expression (6). In and 20 (4,7). Histone H3 is primarily opears to have a dominant role in his sphorylation at Ser10, Ser28, and Th uring both mitosis and meiosis (8-10 any species and is catalyzed by the n mammalian cells reveals mitotic ph during anaphase (11).	on in eukaryotes. of H2A, H2B, H3, histones undergo ion, and a direct effect on the most species, ⁷ acetylated at Lys9, tone deposition and r11 of histone H3 is). Phosphorylation kinase haspin. osphorylation at	
Background Refere	nces 1. Wo 2. Ha 3. Str 4. Ch 5. Be 6. Jas 7. Th 8. He 9. Go 10. Pre 11. Da	orkman, J.L. and nsen, J.C. et al. (ahl, B.D. and Allis eung, P. et al. (20 rnstein, B.E. and skelioff, M. and P orne, A.W. et al. (20 ndzel, M.J. et al. to, H. et al. (1999 euss, U. et al. (2005)	Kingston, R.E. (1998) Annu F (1998) Biochemistry 37, 1763 s, C.D. (2000) Nature 403, 42 000) Cell 103, 263-71. Schreiber, S.L. (2002) Chem eterson, C.L. (2003) Nat Cell (1990) Eur J Biochem 193, 70 (1997) Chromosoma 106, 34 a) J Biol Chem 274, 25543-9. 003) Nucleic Acids Res 31, 87 Genes Dev 19, 472-88.	Rev Biochem 67, 545-79. 17-41. 1-5. 9 Biol 9, 1167-73. Biol 5, 395-9. 01-13. 18-60. 28-85.		
Species Reactivity	Specie	es reactivity is de	termined by testing in at leas	t one approved application (e.g., we	stern blot).	
Applications Key	IF-IC:	Immunofluoresc	ence (Immunocytochemistry))		

5/4/24, 10:34 AM Cross-Reactivity	 Phospho-Histone H3 (Ser10) (D2C8) XP® Rabbit mAb (Alexa Fluor® 555 Conjugate) (#3475) Datasheet W Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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