Phospho-Histone H3 (Ser10) (D2C8) XP[®] Rabbit mAb



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Applications: W, IF-IC, FC-FP	Reactivity: H M R Mk Z	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information		Application Western Blotting Immunofluorescence Flow Cytometry (Fixed	-	istry)		Dilution 1:1000 1:800 1:1600
Storage				i), 150 mM NaCl, 100 μg. ot aliquot the antibody.	/ml BSA, 50% glycei	ol and less than
				sion of this product see	•	
Specificity/Sen	sitivity	when phosphorylated	at Ser10; however,	Rabbit mAb detects endo this antibody does not o ibody does not cross-re	detect phosphoryla	ted Ser10 when
Source / Purifi	cation			nunizing animals with a series of human histone		eptide
Background		eukaryotes. The nucle H2A, H2B, H3, and H4 histones undergo vari 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	osome, made up o), is the primary bu ious posttranslatior juitination (2-5). The the accessibility of the accessibility of the dat 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 f DNA wound around eig lding block of chromatin al modifications, includ ese modifications occur chromatin to transcript 12B is primarily acetylate 23, 27, and 56. Acetylati chromatin assembly in s is tightly correlated with rylation at Thr3 of histo ase haspin. Immunostain horylation at Thr3 of H3	ght core histone pro in (1). The amino-ter ing acetylation, pho in response to vario ion factors and, the ed at Lys5, 12, 15, an ion of H3 at Lys9 ap some organisms (2, in chromosome cond ne H3 is highly cons ning with phospho-	oteins (two each of minal tails of core sphorylation, ous stimuli and erefore, gene and 20 (4,7). Histone pears to have a 3). Phosphorylation densation during served among specific antibodies
Background Re	eferences	2. Hansen, J.C. et al. (1 3. Strahl, B.D. and Allis 4. Cheung, P. et al. (20	998) Biochemistry 3 s, C.D. (2000) Natur 100) Cell 103, 263-7 Schreiber, S.L. (2003) 1990) Eur J Biochen (1997) Chromosom 1997) Chromosom 19 Biol Chem 274, 2 003) Nucleic Acids F	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>Res</i> 31, 878-85.		
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody i	n 5% w/v BSA, 1X
Applications K	ey	W: Western Blotting I (Fixed/Permeabilized)		escence (Immunocytoch	emistry) FC-FP: Flov	v Cytometry

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