Acetyl-Histone H2B (Lys12) (D7H4) Rabbit mAb (ChIP Formulated)



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Applications: IP, ChIP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P33778	Entrez-Gene Id: 3018
Product Usage Information		For optimal ChIP results, IP. This antibody has bee			n (approximately 4 x 10 ⁶ cells) per romatin IP Kits.
		Application Immunoprecipitation Chromatin IP			Dilution 1:50 1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			
Specificity/Sensit	tivity		when acetylated at Lys1		gnizes endogenous levels of s not cross-react with histone
Species predicted based on 100% se homology		Mouse, Rat, Monkey, Chicken, Xenopus, Zebrafish, Bovine, Pig, Horse			
Source / Purificat	tion	Monoclonal antibody is p corresponding to residue			
Background		block of chromatin. Orig now been shown to be d modifications, including p300/CBP histone acetylt histone H2B (Lys5, 12, 12 acetylation of the histon- weaken histone-DNA and structure and increasing acetylation of specific lys transcription and chrom- acetylated lysine residue activation by the RAD6 E RNF20/RNF40) (7). Mono active genes and stimula remodeling (7-9). In addi two additional histone m response to metabolic st at Lys36, both at promot elongation (11). In respo the Mst1 kinase (12). Up to global phosphorylated athis case, phosphorylated	inally thought to function ynamic proteins, underge acetylation, phosphoryla transferases acetylate mu b, and 20) at gene promote e tails neutralizes the pose d nucleosome-nucleosome the access of DNA to var ine residues creates dock atin regulatory proteins t s (6). Histone H2B is mon 2 protein in conjunction v -ubiquitinated histone H2 tes transcriptional elonge tion, it is essential for sub iodifications that regulate ress, AMPK is recruited to erss and in transcribed rec ninduction of apoptosis n of histone H2B during of at irradiation-induced DN on at Ser14 is rapid, depen apoptosis, suggesting th	as a static scaffold f bing multiple types of tion, methylation, an ultiple lysine residues ters during transcrip itive charge of these is interactions, there ious DNA-binding pr king sites that facilita hat contain a bromo o-ubiquitinated at Ly vith the BRE1A/BRE1 2B Lys120 is associat ation by facilitating F osequent methylatio be transcriptional initi o responsive genes a gions of genes, and u stimuli, histone H2E , Mst1 is cleaved and chromatin condensa A damage foci in mo nds on prior phosph	d ubiquitination (1,2). The s in the amino terminal tail of tional activation (1-3). Hyper- domains and is believed to by destabilizing chromatin oteins (4,5). In addition, ite recruitment of many
Background Refe	erences	2. Jaskelioff, M. and Pete 3. Roth, S.Y. et al. (2001) 4. Workman, J.L. and Kin		<i>Biol</i> 5, 395-9. -120. <i>ev Biochem</i> 67, 545-7	79.

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Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
Applications Key	IP: Immunoprecipitation ChIP: Chromatin IP		
Cross-Reactivity Key	H: Human		
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