1/1/24, 11:52 AM Revision 1

Acetyl-Histone H2B (Lys5) Antibody							
Store					Orders:	877-616-CELL (2355) orders@cellsignal.com	·
4					Support:	877-678-TECH (8324)	,
#2574					Web:	info@cellsignal.com cellsignal.com	
For Research Use Only.	Not for Use	in Diagnostic Proce	dures.	3 Trask	Lane Danvers Mas	sachusetts 01923 USA	
Applications: WB, IP, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 14	Source: Rabbit	UniProt ID: #P33778	Entrez-Gene Id: 3018	_
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)			Dilution 1:1000 1:50 1:100	
Storage		Supplied in 10 mM sodiu 0°C. Do not aliquot the), 150 mM NaCl, 100) μg/ml BSA and 50%	glycerol. Store at –	
Specificity / Sensiti		cetyl-Histone H2B (Lys /sine 5. The antibody do		-		vhen acetylated at	
Source / Purificatio	С	Polyclonal antibodies are orresponding to residue nd peptide affinity chror	s surrounding Lys				
Background	b b a a a n n v t t b d d t t t c c L c c c c c c c c c c c c c c	he nucleosome, made u lock of chromatin. Origi een shown to be dynam cetylation, phosphorylai cetyltransferases acetyl nd 20) at gene promote eutralizes the positive c ucleosome interactions arious DNA-binding pro nat facilitate recruitment romodomain, which bin uring transcriptional act also known as RNF20/F anscribed region of acti hromatin remodeling (7- ys79, two additional his esponse to metabolic st ys36, both at promoters 11). In response to mult 12). Upon induction of a hosphorylation of histor hosphorylation at Ser14- bsence of apoptosis, su epair and apoptosis.	nally thought to fur nic proteins, underg tion, methylation, a late multiple lysine rs during transcrip harge of these dor , thereby destabiliz teins (4,5). In additi of many transcript ds to acetylated lys ivation by the RAD RNF40) (7). Mono-to ve genes and stim -9). In addition, it is tone modifications ress, AMPK is recr and in transcribed iple apoptotic stimu poptosis, Mst1 is co to H2B during chro tion-induced DNA is rapid, depends	action as a static sca going multiple types and ubiquitination (1, residues in the amin tional activation (1-3 nains and is believe ing chromatin struct tion, acetylation of sp ion and chromatin re- sine residues (6). His 6 E2 protein in conju- ubiquitinated histone ulates transcriptional e essential for subse that regulate transcrip- uited to responsive a regions of genes, a uli, histone H2B is pl eleaved and activated matin condensation damage foci in mou- on prior phosphoryl	ffold for DNA packagii of post-translational m 2). The p300/CBP his no terminal tail of histo). Hyper-acetylation of d to weaken histone-D ure and increasing the pecific lysine residues egulatory proteins that stone H2B is mono-ub unction with the BRE1 H2B Lys120 is assoc al elongation by facilita quent methylation of h riptional initiation and genes and phosphoryl und may regulate trans nosphorylated at Ser1 d by caspase-3, leadir . Interestingly, histone se embryonic fibroblas ation of H2AX Ser139	ng, histones have now nodifications, including tone ine H2B (Lys5, 12, 15, f the histone tails NA and nucleosome- e access of DNA to creates docking sites contain a iquitinated at Lys120 A/BRE1B E3 ligase iated with the ting FACT-dependent istone H3 Lys4 and elongation (10). In ates histone H2B at scriptional elongation 4 by the Mst1 kinase ing to global H2B is rapidly sts (13). In this case, , and occurs in the	
Background Refere	2 3 4 5 6 7 8 9 10 11	Peterson, C.L. and Lau Jaskelioff, M. and Pete Roth, S.Y. et al. (2001) Workman, J.L. and Kir Hansen, J.C. et al. (19 Yang, X.J. (2004) <i>Bioe</i> Kim, J. et al. (2004) <i>Bioe</i> Minsky, N. et al. (2006) Pavri, R. et al. (2006) Shilatifard, A. (2006) Bungard, D. et al. (2017)	erson, C.L. (2003)) Annu Rev Bioche hgston, R.E. (1998) 98) Biochemistry 3 ssays 26, 1076-87 ell 137, 459-71.) Nat Cell Biol 10, Cell 125, 703-17. Innu Rev Biochem .0) Science 329, 12	Nat Cell Biol 5, 395- m 70, 81-120.) Annu Rev Biochem 37, 17637-41. 483-8. 75, 243-69. 201-5.	9.		1 <i>1</i>
https://www.cellsignal.com	n/datasheet	t.jsp?productId=257	4&images=0&p	rotocol=0			1/2

1/24, 11:52 AM	 Acetyl-Histone H2B (Lys5) Antibody (#2574) Datasheet Without Images Cell Signaling Technology 12. Cheung, W.L. et al. (2003) <i>Cell</i> 113, 507-17. 13. Fernandez-Capetillo, O. et al. (2004) <i>J Exp Med</i> 199, 1671-7.
Species Reactivity	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	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)
Cross-Reactivity 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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