Acetyl-Histone H3 (Lys23) (D6Y7M) Rabbit mAb Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane Danvers Massachusetts 01923 USA

	Activity:Sensitivity:I M REndogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350
Product Usage Information	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			
Specificity / Sensitivity	acetylated at Lys23. T	Acetyl-Histone H3 (Lys23) (D6Y7M) Rabbit mAb recognizes endogenous levels of histone H3 protein wher acetylated at Lys23. This antibody shows some cross-reactivity with histone H2B acetylated at Lys15. In addition, the antibody does not cross-react with histone H3 acetyl-lysine 9, 14, 18, 27, or 56.			ylated at Lys15. In
Species predicted to react based on 100% sequence homology:	Hamster, Zebrafish				
Source / Purification			munizing animals with a uman histone H3 protein.		esponding to
Background	block of chromatin. Or been shown to be dyn acetylation, phosphory amino-terminal tail dou 36, and 56), and H4 (I transcriptional activati histone tails neutralize nucleosome-nucleoso accessibility of DNA to residues creates dock lysine residues (6). Ma be recruited to gene p mediated by histone a recruited to genes by	iginally thought to amic proteins, un- /lation, methylatio mains of histones _ys5, 8, 12, and 10 on, DNA replications the positive char me interactions, the various DNA-bin ing sites for a pro- any transcription a romoters, in part, cetyltransferases DNA-bound protein sistone deacetylas	histone proteins (H2A, H of function as a static scaft dergoing multiple types of n, and ubiquitination (1,2 H2A (Lys5), H2B (Lys5, 6) and is important for th on, recombination, and D arge of these domains ar hereby destabilizing chro ding proteins (4,5). In ad tein module called the br and chromatin regulatory through binding of acety (HATs), such as CBP/p3 in factors to facilitate trans ses (HDAC and sirtuin pr repression (7,8).	fold for DNA packagin of post-translational m 2). Histone acetylation 12, 15, and 20), H3 (L e regulation of histone NA repair (1-3). Hype ad is believed to weak omatin structure and in Idition, acetylation of s romodomain, which bi proteins contain brom lated histone tails. His 300, GCN5L2, PCAF, a nscriptional activation	ng, histones have now odifications, including occurs mainly on the Lys9, 14, 18, 23, 27, e deposition, r-acetylation of the en histone-DNA and increasing the specific lysine ands to acetylated modomains and may stone acetylation is and Tip60, which are (3). Deacetylation,
Background Reference	2. Jaskelioff, M. and P 3. Roth, S.Y. et al. (20 4. Workman, J.L. and 5. Hansen, J.C. et al. 6. Yang, X.J. (2004) <i>B</i> 7. Haberland, M. et al.	eterson, C.L. (200 01) Annu Rev Bio Kingston, R.E. (19 (1998) Biochemist ioessays 26, 1076 (2009) Nat Rev C	998) Annu Rev Biochem try 37, 17637-41. 5-87.). 67, 545-79.	
Species Reactivity	Species reactivity is de	termined by testin	ng in at least one approve	ed application (e.g., w	estern blot).
Western Blot Buffer	IMPORTANT: For west		e membrane with diluted	primary antibody in 5	% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

1/1/24, 3:00 PM Acetyl-Hi	stone H3 (Lys23) (D6Y7M) Rabbit mAb (#14932) Datasheet Without Images Cell Signaling Technolo		
Applications Key	WB: Western Blotting		
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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