5336

## Acetyl-Histone H2A.Z (Lys4/Lys7) (D3V1I) 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

## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP, FC-FP, ChIP, ChIP-seq	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 14	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P0C0S5	Entrez-Gene Id: 3015
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 <sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.				
		<b>Application</b> Western Blotting Immunoprecipitation Flow Cytometry (Fixed Chromatin IP Chromatin IP-seq				<b>Dilution</b> 1:1000 1:200 1:50 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/Sens	itivity	Acetyl-Histone H2AZ (Lys4/Lys7) recognizes endogenous levels of histone H2AZ protein only when acetylated at Lys4 and/or Lys7. This antibody does not cross-react with other acetylated histones, including histone H2A acetylated at Lys5. This antibody also detects a band around 22 kDa, which is most likely monoubiquitylated histone H2AZ that is acetylated on Lys4 and Lys7.				
Source / Purifica	ation	,		nunizing animals with a s d Lys7 of human H2AZ p		orresponding to
Background		The nucleosome, mad block of chromatin. Ir regulating chromatin can directly or indirec canonical H2A (most conserved variant acr and is important for c ( <i>S. cerevisiae</i> ), TIP60 ( dependent exchange changes histone-histo	de up of four core h n addition to the gro structure, cells can ttly modulate chrom abundant), H2A.X, M ross species, functio chromosome stabilit <i>D. melanogaster</i> ) an of H2A.Z for H2A in one interactions in t	a critical role in the regu istone proteins (H2A, H2 wing number of post-tra also exchange canonica atin structure (1). There facroH2A, H2ABbd and H ns as both a positive and y (2). Several homologo of SRCAP (mammals), ha the nucleosome (3,4,5). he nucleosome stability a	B, H3 and H4), is th anslational histone l histones with vari are five major vari H2A.Z (2). Histone H d negative regulato us protein complex ave been shown to This exchange of H l alters an acidic pa	ne primary building modifications ant histones that ants of histone H2A: H2A.Z, the most or of transcription tes, such as SWR-C catalyze the ATP- nistone H2A variants atch on the surface
			end of genes and co	ith gene activity (8). Acet nfers nucleome destabil activation (9-11).		
Background Ref	ferences	1. Jin, J. et al. (2005) 7 2. Raisner, R.M. and M 3. Mizuguchi, G. et al. 4. Kusch, T. et al. (200 5. Ruhl, D.D. et al. (200 6. Suto, R.K. et al. (200 7. Fan, J.Y. et al. (200 8. Millar, C.B. et al. (200 9. Bruce, K. et al. (200 10. Ishibashi, T. et al. 11. Valdés-Mora, F. et	1adhani, H.D. (2006) (2004) <i>Science</i> 303, (4) <i>Science</i> 306, 2084 (5) <i>Biochemistry</i> 45 (5) <i>Nat Struct Biol</i> 7 (5) <i>Mol Cell</i> 16, 655-67 (5) <i>Nucleic Acids Res</i> (2009) <i>Biochemistry</i>	Curr Opin Genet Dev 16 343-8. 4-7. , 5671-7. , 1121-4. 711-22. ; 33, 5633-9. ; 48, 5007-17.	5, 119-24.	

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	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized) <b>ChIP:</b> Chromatin IP <b>ChIP-seq:</b> Chromatin IP-seq			
Cross-Reactivity Key	H: Human M: Mouse R: Rat			
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.			
	SimpleChIP is a registered trademark of Cell Signaling Technology, Inc.			
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.			
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.			
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purpose, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.			