4/25/24, 10:34 AM Revision 6

 Histone H3 (D1H2) XP[®] Rabbit mAb 601 M2 Markov Marko						Cell Signaling FECHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com	
6					Support:	877-678-TECH (8324)	
<i>†</i> 446					Web:	info@cellsignal.com cellsignal.com	
++ For Research Use Only.	Not for Use in	Diagnostic Proce	adures	3 Trask L	ane Danvers	Massachusetts 01923 USA	
Applications: WB, IHC-P, IF-IC, FC- FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID #P68431	: Entrez-Gene Id: 8350	
Product Usage Information	We: Imn Imn	Dication stern Blotting nunohistochemistry nunofluorescence (I w Cytometry (Fixed/	mmunocytochem	nistry)		Dilution 1:2000 1:200 - 1:800 1:200 - 1:800 1:50 - 1:200	
Storage	0.02	% sodium azide. St	ore at –20°C. Do	7.5), 150 mM NaCl, 100 not aliquot the antibody ersion of this product se	/.	6 glycerol and less than	
Specificity / Sensitivity		Histone H3 (D1H2) XP [®] Rabbit mAb detects endogenous levels of total Histone H3 protein, including isoforms H3.1, H3.2, and H3.3. This antibody also detects the Histone H3 variant CENP-A. This antibody does not cross-react with other core histones.					
Species predicted to react based on 100% sequence homology		Hamster, Chicken, D. melanogaster, Xenopus, Zebrafish, Bovine					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of the human histone H3 protein.					
Background	The and varic ubiq acce histo 14, 1 chro tight at Th Imm	nucleosome, made H4), is the primary H ous posttranslationa uitination (2-5). The ssibility of chromati ne H2B is primarily .8, 23, 27, and 56. A matin assembly in s y correlated with ch or 3 of histone H3 is unostaining with pho-	up of DNA woun building block of I modifications, ir se modifications n to transcription acetylated at Lys Acetylation of H3 some organisms iromosome cond highly conserved ospho-specific ar	d around eight core his chromatin (1). The amir ncluding acetylation, pho occur in response to va factors and, therefore, s5, 12, 15, and 20 (4,7) at Lys9 appears to hav (2,3). Phosphorylation a ensation during both mi I among many species	cone proteins (two to-terminal tails osphorylation, m rious stimuli and gene expression Histone H3 is p e a dominant rol tt Ser10, Ser28, tosis and meiosi and is catalyzed cells reveals mi	I have a direct effect on the n (6). In most species, rimarily acetylated at Lys9, e in histone deposition and and Thr11 of histone H3 is is (8-10). Phosphorylation	
Background Refer	2. Ha 3. St 4. Cl 5. Be 6. Ja 7. Th 8. He 9. Ge 10. Pr	ansen, J.C. et al. (19 rahl, B.D. and Allis, neung, P. et al. (200 ernstein, B.E. and S	998) Biochemistr C.D. (2000) Natu 0) Cell 103, 263- chreiber, S.L. (20 erson, C.L. (2003 990) Eur J Bioch 997) Chromosor J Biol Chem 274 3) Nucleic Acids	ure 403, 41-5. .71. .002) Chem Biol 9, 1167 3) Nat Cell Biol 5, 395-9 em 193, 701-13. na 106, 348-60. ., 25543-9. Res 31, 878-85.	-73.		

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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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
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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