HP1β Antibody		Cell Signaling TECHNOLOGY®	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
က္	Support:	877-678-TECH (8324)	
#2613	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers Mas	sachusetts 01923 USA	

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

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source: Rabbit	UniProt ID: #P83916	Entrez-Gene Id: 10951
Product Usage Information		lication stern Blotting			Dilution 1:1000	
Storage		lied in 10 mM sodiu . Do not aliquot the), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	lycerol. Store at –
Specificity / Sensitiv		This antibody detects endogenous levels of HP1 beta protein. The antibody does not cross-react with alpha or HP1 gamma proteins.			ross-react with HP1	
Species predicted to react based on 100% sequence homology	6	ne				
Source / Purificatior	carbo				h a synthetic peptide cor by protein A and peptide	
Background	silence assou the g chror doma close DNA HP1 forma meth contr with r trans modi	cing and higher ord ciated with centrom enome (2,3). HP1 p nodomain, followed ain. The chromodon ly associated with o in a sequence-inde proteins, in additior ation, including the yltransferases, and ibuting to heterochr retinoblastoma (Rb) cription in quiescen	er chromatin struct eric heterochromat proteins are approx I by a variable hing nain facilitates bind centromeric heteroo pendent manner (6 to binding multiple SUV39H histone m the p150 subunit c romatin formation a and E2F6 proteins t cells (10,11). HP1 phosphorylation, ac	ure (1). All three HF in; however, HP1 β imately 25 kDa in s e region and a cons ing to histone H3 tr chromatin (4,5). The thromatin (4,5). The ethyltransferase, th f chromatin-assem nd propagation, HF s, both of which fun proteins are subje cetylation, methylat	c adaptor molecules invo P1 family members (α, β, and γ also localize to eu- ize and contain a conser- served carboxy-terminal of i-methylated at Lys9, a h e variable hinge region bi- low domain mediates the d in gene silencing and h the DNMT1 and DNMT3a bly factor-1 (CAF1) (7-9) P1 and SUV39H are also ction to repress euchrom ct to multiple types of po- ion, ubiquitination, and si	and y) are primarily chromatic sites in ved amino-terminal chromoshadow istone "mark" nds both RNA and e dimerization of eterochromatin DNA . In addition to found complexed atic gene st-translational
Background Referer	2. Min 3. Nie 4. La 5. Ba 6. Mu 7. Ya 8. Fu 9. Mu 10. Nie 11. Og 12. Min 13. Zh	aison, C. and Almou nc, E. et al. (2000) (elsen, A.L. et al. (20 chner, M. et al. (20 innister, A.J. et al. (20 inchardt, C. et al. (20 mamoto, K. and So ks, F. et al. (2003) / irzina, N. et al. (199 elsen, S.J. et al. (2002) nc, E. et al. (1999) (ao, T. et al. (2001) (mberk, G. et al. (20	Cytogenet. Cell Ge (01) Mol. Cell 7, 72 (01) Nature 410, 110 (2001) Nature 410, 1 (2001) Nature 410, 1 (2001) Nature 410, 3 (2003) Bi Nucleic Acids Res. (20) Mol. Cell 4, 529 (21) Nature 412, 56 (22) Science 296, 111 (23) Chromosoma 108, J. Biol. Chem. 276,	net. 90, 279-284. 9-739. 5-120. 120-124. 975-981. ochem. Biophys. R 31, 2305-2312. -540. 1-565. 32-1136. 220-234. 9512-9518.	. 5, 296-304. es. Commun. 301, 287-2	92.

1/1/24, 12:20 PM Species Reactivity	HP1β Antibody (#2613) Datasheet Without Images Cell Signaling Technology 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
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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