

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit	UniProt ID: #P83916	Entrez-Gene Id: 10951	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		This antibody detects endogenous levels of HP1 beta protein. The antibody does not cross-react with HP1 alpha or HP1 gamma proteins.					
Species predicted to react based on 100% sequence homology		Bovine					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human HP1 beta. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		gene silencing and hig primarily associated w euchromatic sites in th conserved amino-term carboxy-terminal chro methylated at Lys9, a variable hinge region chromoshadow doma proteins implicated in methyltransferase, the chromatin assembly fa and propagation, HP1 proteins, both of whic HP1 proteins are subje	gher order chromat with centromeric her me genome (2,3). HF minal chromodomai moshadow domain histone "mark" clos binds both RNA and in mediates the din gene silencing and both RNA and chow T1 and DNM actor 1 (CAF-1) (7-9) and SUV39H1 are a h function to represent to multiple type	ily of heterochromatic a in structure (1). All three erochromatin; however, P1 proteins are approxin n, followed by a variable . The chromodomain fa- ely associated with cent d DNA in a sequence-ind heterochromatin forma T3a DNA methyltransfer . In addition to contribu- also found complexed w ss euchromatic gene tra s of post-translational m h, ubiquitination, and su	H ^D 1 family member HP1β and γ also lo hately 25 kDa in size cilitates binding to romeric heterochro ependent manner is, in addition to bin titon, including the ases, and the p150 ting to heterochrom ith retinoblastoma nscription in quiesco odifications, includ	ers (α, β, and γ) are calize to e and contain a a conserved histone H3 tri- omatin (4,5). The (6). The nding multiple SUV39H histone subunit of natin formation (Rb) and E2F6 cent cells (10,11). ing	
Background References		 Maison, C. and Almouzni, G. (2004) <i>Nat. Rev. Mol. Cell Biol.</i> 5, 296-304. Minc, E. et al. (2000) <i>Cytogenet. Cell Genet.</i> 90, 279-284. Nielsen, A.L. et al. (2001) <i>Mol. Cell</i> 7, 729-739. Lachner, M. et al. (2001) <i>Nature</i> 410, 116-120. Bannister, A.J. et al. (2001) <i>Nature</i> 410, 120-124. Muchardt, C. et al. (2002) <i>EMBO Rep.</i> 3, 975-981. Yamamoto, K. and Sonoda, M. (2003) <i>Biochem. Biophys. Res. Commun.</i> 301, 287-292. Fuks, F. et al. (2003) <i>Nucleic Acids Res.</i> 31, 2305-2312. Murzina, N. et al. (1999) <i>Mol. Cell</i> 4, 529-540. Nielsen, S.J. et al. (2001) <i>Nature</i> 412, 561-565. Ogawa, H. et al. (2002) <i>Science</i> 296, 1132-1136. Minc, E. et al. (2001) <i>J. Biol. Chem.</i> 276, 9512-9518. Comberk, G. et al. (2006) <i>Nat. Cell Biol.</i> 8, 407-415. 					

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	W: Western Blotting			
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey			
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