3/15/24, 10:36 AM Revision 5

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For Research Use Only.	Not for Use in	Diagnostic Proc	edures.			
Applications: WB, IP, IHC-P, IF-IC, FC-FP, ChIP, ChIP-seq, C&R, C&T	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 41, 43	Source/Isotype: Rabbit IgG	UniProt ID: #P35226	Entrez-Gene Id: 648
Product Usage Information				use 10 µl of antibody and validated using Simple0		
	The	CUT&RUN dilution	was determined	using CUT&RUN Assay	Kit #86652.	
	The	CUT&Tag dilution v	vas determined u	ising CUT&Tag Assay Ki	t #77552.	
	Арг	olication				Dilution
		stern Blotting				1:1000
	Imn	nunoprecipitation				1:200
	Imn	nunohistochemistry	(Paraffin)			1:200
	Imn	nunofluorescence (mmunocytochen	nistry)		1:600
	Flov	w Cytometry (Fixed	/Permeabilized)			1:100
	Chr	omatin IP				1:50
	Chr	omatin IP-seq				1:50
	CU.	T&RUN				1:50
	CU ⁻	T&Tag				1:50
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		cerol and less than
Specificity / Sensit	ivitv Bmi1	L (D20B7) XP [®] Rab	bit mAb recogniz	es endogenous levels o	f total Bmi1 protein.	
Source / Purificatio	on Mon		produced by imm	nunizing animals with rea		
Background	rene cell I coop com on L com whic toge Bmi1 the p	wal, cell cycle regu ineage specification perate to maintain lo plex, EED-EZH2, is ys27. This histone H sys27. This histone H blex (5). Histone H h ubiquitinylates his ther with Ring1 stro L plays an importan	lation, and oncog n, cell death, and ong-term gene sil recruited to gen methyl-transferas 8 methylation at L stone H2A on Lys ngly enhances th t role in the regul	ontributes to the mainter genesis by maintaining th cell-cycle arrest (1-4). F encing through epigenet es by DNA-binding trans the activity requires the E: -ys27 facilitates the recru- s119 (6). Bmi1 is a comp the E3 ubiquitin ligase ac- ation of cell proliferation is required for maintenan	ne silenced state of PCG proteins exist in ic chromatin modific cription factors and zh2, Eed, and Suz1 uitment of the secor ionent of the PRC1 tivity of the Ring2 ca and senescence th	genes that promote two complexes that cations. The first methylates histone H3 2 subunits of the d complex, PRC1, complex, which atalytic subunit (7). rough repression of

5/24, 10:36 AM Background References	 Bmi1 (D20B7) XP® Rabbit mAb (#6964) Datasheet Without Images Cell Signaling Technology 1. Boyer, L.A. et al. (2006) <i>Nature</i> 441, 349-53. 2. Lee, T.I. et al. (2006) <i>Cell</i> 125, 301-13. 3. Park, I.K. et al. (2003) <i>Nature</i> 423, 302-5. 4. Molofsky, A.V. et al. (2003) <i>Nature</i> 425, 962-7. 5. Cao, R. and Zhang, Y. (2004) <i>Mol Cell</i> 15, 57-67. 6. Wang, H. et al. (2004) <i>Nature</i> 431, 873-8. 7. Cao, R. et al. (2005) <i>Mol Cell</i> 20, 845-54. 8. Molofsky, A.V. et al. (2005) <i>Genes Dev</i> 19, 1432-7. 9. Jacobs, J.J. et al. (1999) <i>Nature</i> 397, 164-8. 10. Jacobs, J.J. et al. (1999) <i>Genes Dev</i> 13, 2678-90.
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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag
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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