3/15/24, 10:39 AM Revision 6

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នុី Bmi1 (D42B3 ដ	8) Rabb	it mAb				CHNOLOGY®	
ର୍ଟ୍ Bmi1 (D42B3 ଖ ଅ ୧୦୦୦ ୦୦୦					Orders:	877-616-CELL (2355) orders@cellsignal.com	
					Support:	877-678-TECH (8324)	
5856					Web:	info@cellsignal.com cellsignal.com	
#				3 Trask L	ane Danvers Mas	ssachusetts 01923 USA	
For Research Use Only. Not	for Use in I	Diagnostic Proce	dures.				
	activity: M R Mk	Sensitivity: Endogenous	MW (kDa): 41, 43	Source/Isotype: Rabbit IgG	UniProt ID: #P35226	Entrez-Gene Id: 648	
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	The	The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.					
	The	The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.					
	App	lication				Dilution	
		Western Blotting				1:1000	
		Immunoprecipitation				1:100	
		unofluorescence (II	mmunocvtochem	istrv)		1:50 - 1:200	
		omatin IP				1:50	
		omatin IP-seq				1:50	
		r&RUN				1:50	
		r&Tag				1:50	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less tha 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				rcerol and less than		
Specificity / Sensitivity		Bmi1 (D42B3) Rabbit mAb recognizes endogenous levels of total Bmi1 protein.					
Source / Purification Monoclonal antibo terminus of humar				unizing animals with re	combinant protein sp	pecific to the carboxy	
Background	renev cell li coop comp on Ly comp whicl toget Bmi1 the p stem	wal, cell cycle regula neage specification erate to maintain lo olex, EED-EZH2, is vs27. This histone n olex (5). Histone H3 n ubiquitinylates his her with Ring1 stron plays an important 16 INK4A and p19 v cells (3,4,8-10).	ation, and oncoge , cell death, and o ng-term gene sile recruited to gene nethyl-transferase methylation at Ly tone H2A on Lys ngly enhances the role in the regula ARF genes and is	e activity requires the E vs27 facilitates the recr L19 (6). Bmi1 is a comp e E3 ubiquitin ligase ac tition of cell proliferation s required for maintena	he silenced state of PCG proteins exist in tic chromatin modific scription factors and zh2, Eed, and Suz1: uitment of the secon ponent 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	
Background Referenc	2. Le 3. Pa 4. Mo 5. Ca 6. Wa 7. Ca 8. Mo 9. Ja	yer, L.A. et al. (200 e, T.I. et al. (2006) (rk, I.K. et al. (2003) blofsky, A.V. et al. (2 to, R. and Zhang, Y. ang, H. et al. (2004) to, R. et al. (2005) A blofsky, A.V. et al. (2 cobs, J.J. et al. (199 cobs, J.J. et al. (199	Cell 125, 301-13. Nature 423, 302 003) Nature 425, (2004) Mol Cell Nature 431, 873 Nol Cell 20, 845-5 005) Genes Dev 99) Nature 397, 1	-5. 962-7. 15, 57-67. -8. -4. 19, 1432-7. 64-8.			

3/15/24, 10:39 AM	Bmi1 (D42B3) Rabbit mAb (#5856) Datasheet Without Images Cell Signaling Technology	
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 IF-IC: Immunofluorescence (Immunocytochemistry) 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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