4/12/24, 10:30 AM Revision 4

SUZ12 (D39F6) XP [®] Rabbit mAb					CHNOLOGY® 877-616-CELL (2355)
07				_	orders@cellsignal.com
23				Support:	877-678-TECH (8324)
#373				Web:	info@cellsignal.com cellsignal.com
			3 Trask La	ane Danvers Mas	ssachusetts 01923 USA
For Research Use Only. Not for U Applications: Reactivi	•	edures. MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC, FC, H M R M ChIP, ChIP-seq, C&R, eCLIP		83	Rabbit IgG	#Q15022	23512
Product Usage Information	For optimal ChIP and ChIP-seq results, use 5 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.				
	was determined	termined using CUT&RUN Assay Kit #86652.			
	Application				Dilution
	Western Blotting				1:1000
	Immunoprecipitation				1:50
	Immunofluorescence (Immunocytochem	nistry)		1:800
	Flow Cytometry (Fixed	l/Permeabilized)			1:100
	Chromatin IP				1:100
	Chromatin IP-seq				1:100
	CUT&RUN				1:100
	eCLIP				1:200
	For more information	n about the RB	P-eCLIP service plea	ase visit Eclipseb	io.
Storage			7.5), 150 mM NaCl, 100 not aliquot the antibody		cerol and less than
Specificity / Sensitivity	SUZ12 (D39F6) XP® R	abbit mAb detects	s endogenous levels of S	SUZ12 protein.	
Species predicted to react based on 100% sequence homology	Pig, Horse				
Source / Purification	Monoclonal antibody is residues surrounding P		nunizing animals with a s Suz12 protein.	synthetic peptide co	rresponding to
Background	cell cycle regulation and specification, cell death maintain long-term gen EZH2, is recruited to ge Methylation of Lys27 fa H2A on Lys119 (5). Sup with Ezh2 and Eed is al C2H2 zinc finger domai proteins and may media	d oncogenesis by and cell-cycle an e silencing throug enes by DNA-bind cilitates the recrui opressor of Zeste bsolutely required in similar to the zi ate the interaction	ribute to the maintenance maintaining the silenced rest (1-4). PcG proteins h epigenetic chromatin h ing transcription factors tment of the second con 12 (SUZ12) is a compose for histone methyl-trans nc finger domains found between EZH2 and nuc of the colon, breast and	d state of genes tha exist in two complex modifications. The f and methylates hist nplex, PRC1, which nent of the PRC2 co sferase activity (6). S in sequence-specific cleosomes (6). SUZ	t promote cell lineage xes that cooperate to irst complex, EED- tone H3 on Lys27. ubiquitinylates histone omplex, which together SUZ12 contains a ic DNA binding
Background References	1. Boyer, L.A. et al. (200 2. Lee, T.I. et al. (2006) 3. Cao, R. et al. (2002) 4. Müller, J. et al. (2002) 5. Wang, H. et al. (2004) 6. Cao, R. and Zhang, Y	Cell 125, 301-13. Science 298, 103) Cell 111, 197-20) Nature 431, 873	9-43. 08. 3-8.		

4/12/24, 10:30 AM	 SUZ12 (D39F6) XP® Rabbit mAb (#3737) Datasheet Without Images Cell Signaling Technology 7. Kirmizis, A. et al. (2003) <i>Mol Cancer Ther</i> 2, 113-21. 8. Kirmizis, A. et al. (2004) <i>Genes Dev</i> 18, 1592-605. 			
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) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN eCLIP: eCLIP			
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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