e at -20C	Ezh2 Antibody				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
		Support:	877-678-TECH (8324)		
#4905		Web:	info@cellsignal.com cellsignal.com		
#4		3 Trask Lane Danvers Mass	achusetts 01923 USA		

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

Applications: W, IP, ChIP	Reactivity: H M R Pg	Sensitivity: Endogenous	MW (kDa): 98	Source/Isotype: Rabbit	UniProt ID: #Q15910	Entrez-Gene Id: 2146		
Product Usage Information		For optimal ChIP results, use 20 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.						
		Application Western Blotting Immunoprecipitation Chromatin IP			Dilution 1:1000 1:50 1:25			
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		Ezh2 Antibody detects endogenous levels of Ezh2 protein. The antibody may cross-react with Ezh2- related proteins.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg354 of human Ezh2 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		The polycomb group (PcG) proteins are involved in maintaining the silenced state of several developmentally regulated genes and contribute to the maintenance of cell identity, cell cycle regulation, and oncogenesis (1,2). Enhancer of zeste homolog 2 (Ezh2), a member of this large protein family, contains four conserved regions including domain I, domain II, and a cysteine-rich amino acid stretch that precedes the carboxy-terminal SET domain (3). The SET domain has been linked with histone methyltransferase (HMTase) activity. Moreover, mammalian Ezh2 is a member of a histone deacetylase complex that functions in gene silencing, acting at the level of chromatin structure (4). Ezh2 complexes methylate histone H3 at Lys9 and 27 <i>in vitro</i> , which is thought to be involved in targeting transcriptional regulators to specific loci (5). Ezh2 is deregulated in various tumor types, and its role, both as a primary effector and as a mediator of tumorigenesis, has become a subject of increased interest (6).						
Background References		1. Sellers, W.R. and Loda, M. (2002) <i>Cancer Cell</i> 2, 349-50. 2. Visser, H.P. et al. (2001) <i>Br J Haematol</i> 112, 950-8. 3. Chen, H. et al. (1996) <i>Genomics</i> 38, 30-7. 4. Tonini, T. et al. (2004) <i>Oncogene</i> 23, 4930-7. 5. Müller, J. et al. (2002) <i>Cell</i> 111, 197-208. 6. Kleer, C.G. et al. (2003) <i>Proc Natl Acad Sci U S A</i> 100, 11606-11.						
Species Reactivity	/	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Buffer				ubate membrane with diluted primary antibody in 5% w/v BSA, 1X jentle shaking, overnight.				
Applications Key		W: Western Blotting IP	: Immunoprecipita	precipitation ChIP: Chromatin IP				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Pg: Pig						
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