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Ezh2 (AC22) Mouse mAb	Cell T E C	Cell Signaling		
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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 98	Source/Isotype: Mouse IgG1	UniProt ID: #Q15910	Entrez-Gene Id: 2146		
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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		Ezh2 (AC22) Mouse mAb detects endogenous levels of total Ezh2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with Ezh2 recombinant protein containing human Ezh2 residues 351-453.						
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 Re	ferences	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 Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer		or western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat 35, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Ke	≥y	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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