## Ezh2 (AC22) Mouse mAb



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 98	Source/Isotype: Mouse IgG1	UniProt ID: #Q15910	Entrez-Gene Id: 2146
Product Usage Information	Application			Dilution		
	Western Blotting			1:1000		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ 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	devi and coni pred met com met regu	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) Cancer Cell 2, 349-50.
- 2. Visser, H.P. et al. (2001) Br J Haematol 112, 950-8.
- 3. Chen, H. et al. (1996) Genomics 38, 30-7.
- 4. Tonini, T. et al. (2004) Oncogene 23, 4930-7.
- 5. Müller, J. et al. (2002) Cell 111, 197-208.
- 6. Kleer, C.G. et al. (2003) Proc Natl Acad Sci U S A 100, 11606-11.

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

**Applications Key** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**WB:** Western Blotting

**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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