2408

Ezh2 (D2C9) XP[®] Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 98	Source/Isotype: Rabbit IgG	UniProt ID: #Q15910	Entrez-Gene Id: 2146		
Product Usage Information		Application Western Blotting	Dilution 1:1000					
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>						
Specificity/Sensitivity		Ezh2 (D2C9) XP $^{ extsf{@}}$ Rabbit mAb (Biotinylated) recognizes endogenous levels of total Ezh2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg354 of human Ezh2 protein.						
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Ezh2 (D2C9) XP [®] Rabbit mAb #5246.						
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	eferences	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 determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 Ke	ey	W: Western Blotting						
Cross-Reactivit	y Key	H: Human M: Mouse R: Rat Mk: Monkey						
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