

SUZ12 (D39F6) XP[®] Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 83	Source/Isotype: Rabbit IgG	UniProt ID: #Q15022	Entrez-Gene Id: 23512
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		SUZ12 (D39F6) XP [®] Rabbit mAb (Biotinylated) recognizes endogenous levels of total SUZ12 protein.				
Species predicted to react based on 100% sequence homology		Pig, Horse				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro257 of human SUZ12 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 SUZ12 (D39F6) XP [®] Rabbit mAb #3737.				
Background		The polycomb group (PcG) proteins contribute to the maintenance of cell identity, stem cell self-renewal, cell cycle regulation and oncogenesis by maintaining the silenced state of genes that promote cell lineage specification, cell death and cell-cycle arrest (1-4). PcG proteins exist in two complexes that cooperate to maintain long-term gene silencing through epigenetic chromatin modifications. The first complex, EED-EZH2, is recruited to genes by DNA-binding transcription factors and methylates histone H3 on Lys27. Methylation of Lys27 facilitates the recruitment of the second complex, PRC1, which ubiquitinylates histone H2A on Lys119 (5). Suppressor of Zeste 12 (SUZ12) is a component of the PRC2 complex, which together with Ezh2 and Eed is absolutely required for histone methyl-transferase activity (6). SUZ12 contains a C2H2 zinc finger domain similar to the zinc finger domains found in sequence-specific DNA binding proteins and may mediate the interaction between EZH2 and nucleosomes (6). SUZ12 is overexpressed in several human tumors, including tumors of the colon, breast and liver (7,8).				
Background References		1. Boyer, L.A. et al. (2006) <i>Nature</i> 441, 349-53. 2. Lee, T.I. et al. (2006) <i>Cell</i> 125, 301-13. 3. Cao, R. et al. (2002) <i>Science</i> 298, 1039-43. 4. Müller, J. et al. (2002) <i>Cell</i> 111, 197-208. 5. Wang, H. et al. (2004) <i>Nature</i> 431, 873-8. 6. Cao, R. and Zhang, Y. (2004) <i>Mol Cell</i> 15, 57-67. 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 Reactiv	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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 W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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