# SUV39H1 (D11B6) Rabbit mAb



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<b>Applications:</b> W, IP	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 48	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O43463	Entrez-Gene Id: 6839
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
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°C. Do not aliquot the antibody.				
Specificity/Sensitivity		SUV39H1 (D11B6) Rabbit mAb recognizes endogenous levels of total SUV39H1 protein. This antibody does not cross-react with the SUV39H2 protein.				
Species predicted to react based on 100% sequence homology		Bovine, Rabbit				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp380 of human SUV39H1 protein.				
Background		Human histone methyltransferase SUV39H1 is the homolog of the dominant Drosophila PEV modifier Su(var)3-9 and is composed of 412 amino acid residues (1). It combines two of the most evolutionarily conserved domains of the "chromatin regulators": the chromo and SET domains (2,3). The 60 amino acid chromo domain represents an ancient histone-like fold that directs heterochromatic localizations. It has been demonstrated that the 130 amino acid SET domain contains the methyltransferase catalytic motif, which cooperates with the adjacent cysteine-rich regions to confer histone methyltransferase activity (1). This enzyme selectively methylates histone H3 on Lys9, which generates a binding site for HP1 proteins, a family of heterochromatic adaptor molecules involved in both gene silencing and supra-nucleosomal chromatin structure (4,5). SUV39H1 histone methyltransferase plays an important role in modification of histone amino termini and regulation of gene expression.				
Background R	eferences	<ol> <li>Rea, S. et al. (2000) Nature 406, 593-599.</li> <li>Koonin, E. V. et al. (1995) Nucleic Acids Res. 23, 4229-4232.</li> <li>Jenuwein, T. et al. (1998) Cell. Mol. Life Sci. 54, 80-93.</li> <li>Lachner, M. et al. (2001) Nature 410, 116-120.</li> <li>Bannister, A. J. et al. (2001) Nature 410, 120-123.</li> </ol>				
Species Reactivity		Species reactivity is determined by testing in at least one approved 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**

 $\textbf{W:} \ \textbf{Western Blotting IP:} \ \textbf{Immunoprecipitation}$ 

# **Cross-Reactivity Key**

H: Human M: Mouse R: Rat Mk: Monkey

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