SUV39H1 Histone Methyltransferase Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	Sensitivity: Transfected Only	MW (kDa): 48	Source/Isotype: Rabbit	UniProt ID: #O43463	Entrez-Gene Id: 6839
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		SUV39H1 Histone Methyltransferase Antibody detects transfected levels of total SUV39H1 histone methyltransferase. The antibody does not cross-react with other related proteins.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human SUV39H1. Antibodies are purified by protein A and peptide affinity chromatography.				
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 References		 Rea, S. et al. (2000) Nature 406, 593-599. Koonin, E. V. et al. (1995) Nucleic Acids Res. 23, 4229-4232. Jenuwein, T. et al. (1998) Cell. Mol. Life Sci. 54, 80-93. Lachner, M. et al. (2001) Nature 410, 116-120. Bannister, A. J. et al. (2001) Nature 410, 120-123. 				
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approv	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				
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