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anti-SUV39H1 antibody (C-Term)

Images



Overview 100 μL Quantity: Target: SUV39H1 Binding Specificity: C-Term Reactivity: Human, Mouse Host: Rabbit Clonality: Polyclonal This SUV39H1 antibody is un-conjugated Conjugate: Application: Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details		
Immunogen:	A synthesized peptide derived from human SUV39H1, corresponding to a region within C-terminal amino acids.	
Isotype:	IgG	
Specificity:	SUV39H1 Antibody detects endogenous levels of total SUV39H1.	
Predicted Reactivity:	Pig,Bovine,Rabbit,Dog	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).	

Target Details

Target: SUV39H1

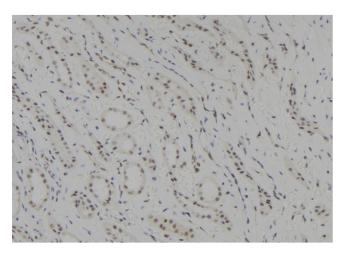
Target Details

Alternative Name:	SUV39H1 (SUV39H1 Products)
Background:	Description: Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3
	using monomethylated H3 'Lys-9' as substrate. Also weakly methylates histone H1 (in vitro). H3
	'Lys-9' trimethylation represents a specific tag for epigenetic transcriptional repression by
	recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Mainly functions in
	heterochromatin regions, thereby playing a central role in the establishment of constitutive
	heterochromatin at pericentric and telomere regions. H3 'Lys-9' trimethylation is also required
	to direct DNA methylation at pericentric repeats. SUV39H1 is targeted to histone H3 via its
	interaction with RB1 and is involved in many processes, such as repression of MYOD1-
	stimulated differentiation, regulation of the control switch for exiting the cell cycle and entering
	differentiation, repression by the PML-RARA fusion protein, BMP-induced repression, repression
	of switch recombination to IgA and regulation of telomere length. Component of the eNoSC
	(energy-dependent nucleolar silencing) complex, a complex that mediates silencing of rDNA in
	response to intracellular energy status and acts by recruiting histone-modifying enzymes. The
	eNoSC complex is able to sense the energy status of cell: upon glucose starvation, elevation of
	NAD+/NADP+ ratio activates SIRT1, leading to histone H3 deacetylation followed by
	dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the formation of silent chromatin in
	the rDNA locus. Recruited by the large PER complex to the E-box elements of the circadian
	target genes such as PER2 itself or PER1, contributes to the conversion of local chromatin to a
	heterochromatin-like repressive state through H3 'Lys-9' trimethylation.
	Gene: SUV39H1
Molecular Weight:	47 kDa
Gene ID:	6839
UniProt:	043463
Application Details	
Application Notes:	WB 1:1000-3000, IHC 1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Handling

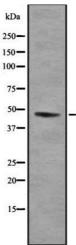
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. ABIN6278405 at 1/100 staining Human kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22_iaC. An HRP conjugated goat anti-rabbit antibody was used as the secondary



Western Blotting

Image 2. Western blot analysis SUV39H1 using Jurkat whole cell lysates