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Anti-SUV39H2 Antibody

Rabbit polyclonal antibody to SUV39H2
Catalog # AP59873

Product Information

Application	WB, IP
Primary Accession	Q9H5I1
Reactivity	Human, Monkey, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46682

Additional Information

Gene ID	79723
Other Names	KMT1B; Histone-lysine N-methyltransferase SUV39H2; Histone H3-K9 methyltransferase 2; H3-K9-HMTase 2; Lysine N-methyltransferase 1B; Suppressor of variegation 3-9 homolog 2; Su(var)3-9 homolog 2
Target/Specificity	Recognizes endogenous levels of SUV39H2 protein.
Dilution	WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100) IP~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

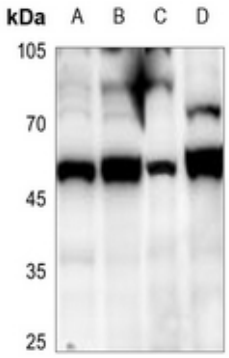
Name	SUV39H2
Synonyms	KMT1B
Function	Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3 using monomethylated H3 'Lys-9' as substrate. H3 'Lys-9' trimethylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins 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 cell cycle regulation, transcriptional repression and regulation of telomere length. May participate in regulation of higher-order chromatin organization during spermatogenesis. 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.
Cellular Location	Nucleus. Chromosome, centromere. Note=Associates with centromeric constitutive heterochromatin.

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SUV39H2. The exact sequence is proprietary.

Images



Western blot analysis of SUV39H2 expression in MCF7 (A), HCT116 (B), K526 (C), EC9706 (D) whole cell lysates.