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KMT1B / SUV39H2 Antibody
Rabbit mAb
Catalog # AP91826

Specification

KMT1B / SUV39H2 Antibody - Product Information

Application	**WB, IHC, IP**
Primary Accession	Q9H5I1
Reactivity	**Rat**
Clonality	**Monoclonal**
Other Names	
H3 K9 HMTase 2; KMT1B; Su(var)3 9 homolog 2; Suv39h2;	
Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**46682 Da**

KMT1B / SUV39H2 Antibody - Additional Information

Dilution	**WB~~1:1000** **IHC~~1:100~500** **IP~~N/A**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human KMT1B / SUV39H2**
Description	**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.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

KMT1B / SUV39H2 Antibody - 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.

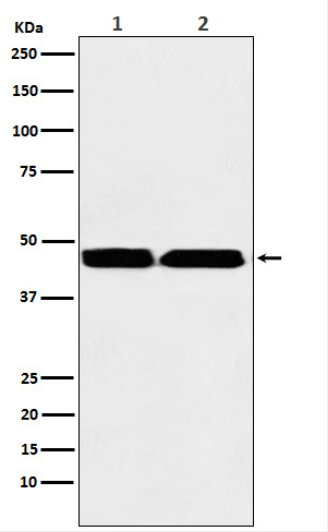
Cellular Location
Nucleus. Chromosome, centromere. Note=Associates with centromeric constitutive heterochromatin.

KMT1B / SUV39H2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KMT1B / SUV39H2 Antibody - Images



Western blot analysis of KMT1B / SUV39H2 expression in (1) MOLT-4 cell lysate; (2) Human testis lysate.