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Anti-SUV39H2 Antibody

Rabbit polyclonal antibody to SUV39H2

Catalog # AP59873

Specification

Anti-SUV39H2 Antibody - Product Information

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

Anti-SUV39H2 Antibody - 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)

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

Anti-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.

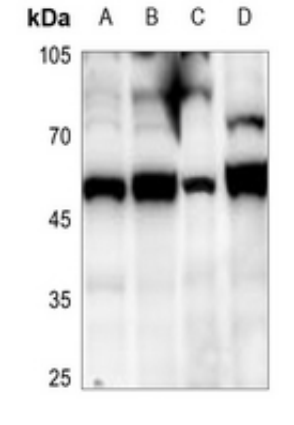
Cellular Location
Nucleus. Chromosome, centromere. Note=Associates with centromeric constitutive heterochromatin.

Anti-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

Anti-SUV39H2 Antibody - Images



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

Anti-SUV39H2 Antibody - Background

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