

SUV39H2 Antibody (N-term G107) Blocking Peptide

Synthetic peptide
Catalog # BP1281c

Specification

SUV39H2 Antibody (N-term G107) Blocking Peptide - Product Information

Primary Accession [Q9H5I1](#)
Other Accession [Q6I9Y3](#)
Clone Names **4020611**
Peptide ID **4020611**

SUV39H2 Antibody (N-term G107) Blocking Peptide - Additional Information

Gene ID 79723

Other Names

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, SUV39H2, KMT1B

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1281c](/product/products/AP1281c) was selected from the N-term region of human SUV39H2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SUV39H2 Antibody (N-term G107) Blocking Peptide - Protein Information

Name SUV39H2

Synonyms KMT1B

Function

Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3 using

SUV39H2 Antibody (N-term G107) Blocking Peptide - Background

SUV39H2 is a histone methyltransferase that methylates Lys-9 of histone H3 and weakly histone H1 (in vitro). H3 Lys-9 methylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 proteins to methylated histones. SUV39H2 may participate in regulation of higher order chromatin organization during spermatogenesis.

SUV39H2 Antibody (N-term G107) Blocking Peptide - References

O'Carroll, D., et al., Mol. Cell. Biol. 20(24):9423-9433 (2000). Rea, S., et al., Nature 406(6796):593-599 (2000).

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.

SUV39H2 Antibody (N-term G107)

Blocking Peptide - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)