

**SUV4-20H2 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12073a****Specification**

---

**SUV4-20H2 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q86Y97](#)**SUV4-20H2 Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 84787

**Other Names**

Histone-lysine N-methyltransferase SUV420H2, Lysine N-methyltransferase 5C, Suppressor of variegation 4-20 homolog 2, Su(var)4-20 homolog 2, Suv4-20h2, SUV420H2, KMT5C

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**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.

**SUV4-20H2 Antibody (N-term) Blocking peptide - Protein Information**Name KMT5C ([HGNC:28405](#))

Synonyms SUV420H2

**Function**

Histone methyltransferase that specifically methylates monomethylated 'Lys-20' (H4K20me1) and dimethylated 'Lys-20' (H4K20me2) of histone H4 to produce respectively dimethylated 'Lys-20' (H4K20me2) and trimethylated 'Lys-20' (H4K20me3) and thus regulates transcription and maintenance of genome integrity (PubMed: [24396869](http://www.uniprot.org/citations/24396869), PubMed: [28114273](http://www.uniprot.org/citations/28114273)). In vitro also methylates unmodified 'Lys-20' (H4K20me0) of histone H4 and nucleosomes (PubMed: [24396869](http://www.uniprot.org/citations/24396869)). H4 'Lys-20' trimethylation represents a specific tag for epigenetic transcriptional repression. Mainly functions in pericentric heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin in these regions. KMT5C is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2) (By similarity). Facilitates TP53BP1 foci formation upon DNA damage and proficient non-homologous end-joining (NHEJ)-directed DNA repair by catalyzing the di- and trimethylation of 'Lys-20' of histone H4 (PubMed: [28114273](http://www.uniprot.org/citations/28114273)). May play a role in class switch recombination by catalyzing the

di- and trimethylation of 'Lys-20' of histone H4 (By similarity).

**Cellular Location**

Nucleus. Chromosome. Note=Associated with pericentric heterochromatin. CBX1 and CBX5 are required for the localization to pericentric heterochromatin (By similarity).

**SUV4-20H2 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**SUV4-20H2 Antibody (N-term) Blocking peptide - Images****SUV4-20H2 Antibody (N-term) Blocking peptide - Background**

SUV420H2 and the related enzyme SUV420H1 (MIM 610881) function as histone methyltransferases that specifically trimethylate nucleosomal histone H4 (see MIM 602822) on lysine-20(K20) (Schotta et al., 2004 [PubMed 15145825]).

**SUV4-20H2 Antibody (N-term) Blocking peptide - References**

Stolk, L., et al. Nat. Genet. (2009) In press :Souza, P.P., et al. BMC Cell Biol. 10, 41 (2009) :Yang, H., et al. J. Biol. Chem. 283(18):12085-12092(2008)Szafranski, K., et al. Genome Biol. 8 (8), R154 (2007) :Tryndyak, V.P., et al. Cancer Biol. Ther. 5(1):65-70(2006)