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SUV4-20H1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12877a

Specification

SUV4-20H1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q4FZB7

SUV4-20H1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 51111

Other Names
Histone-lysine N-methyltransferase SUV420H1, Lysine N-methyltransferase 5B, Suppressor of variegation 4-20 homolog 1, Su(var)4-20 homolog 1, Suv4-20h1, SUV420H1, KMT5B

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.

SUV4-20H1 Antibody (N-term) Blocking peptide - Protein Information

Name KMT5B (HGNC:24283)

Synonyms SUV420H1

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, PubMed:28114273). In vitro also methylates unmodified 'Lys-20' (H4K20me0) of histone H4 and nucleosomes (PubMed: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. KMT5B is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2) (By similarity). Plays a role in myogenesis by regulating the expression of target genes, such as EID3 (PubMed:23720823). 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). May play a role in class switch reconbination 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).

SUV4-20H1 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

SUV4-20H1 Antibody (N-term) Blocking peptide - Images

SUV4-20H1 Antibody (N-term) Blocking peptide - Background

This gene encodes a protein that contains a SET domain.SET domains appear to be protein-protein interaction domains thatmediate interactions with a family of proteins that displaysimilarity with dual-specificity phosphatases (dsPTPases). Thefunction of this gene has not been determined. Two alternativelyspliced transcript variants have been found for this gene.

SUV4-20H1 Antibody (N-term) Blocking peptide - References

Chinenov, Y., et al. Proc. Natl. Acad. Sci. U.S.A. 105(51):20185-20190(2008)Yang, H., et al. J. Biol. Chem. 283(18):12085-12092(2008)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Tryndyak, V.P., et al. Cancer Biol. Ther. 5(1):65-70(2006)Twells, R.C., et al. Genomics 72(3):231-242(2001)