

**SUV4-20H2 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6511C****Specification**

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**SUV4-20H2 Antibody (Center) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">Q86Y97</a>
Other Accession	<a href="#">P0C2N6</a> , <a href="#">Q6Q783</a>
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	195-220

**SUV4-20H2 Antibody (Center) - 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

**Target/Specificity**

This SUV4-20H2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 195-220 amino acids of human SUV4-20H2.

**Dilution**

WB~~1:1000

FC~~1:10~50

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SUV4-20H2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**SUV4-20H2 Antibody (Center) - 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](#), 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. 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](#)). May play a role in class switch recombination by catalyzing the di- and trimethylation of 'Lys-20' of histone H4 (By similarity).

## Cellular Location

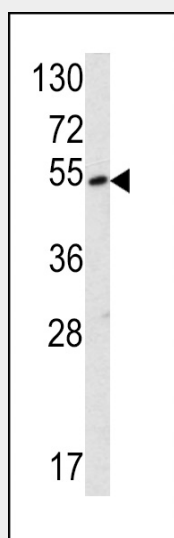
Nucleus. Chromosome. Note=Associated with pericentric heterochromatin. CBX1 and CBX5 are required for the localization to pericentric heterochromatin (By similarity).

## SUV4-20H2 Antibody (Center) - Protocols

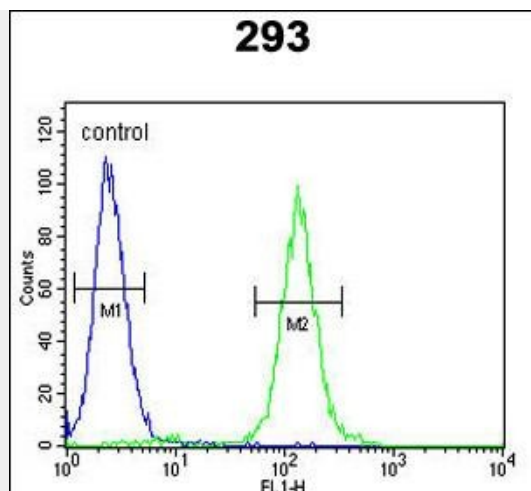
Provided below are standard protocols that you may find useful for product applications.

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

## SUV4-20H2 Antibody (Center) - Images



Western blot analysis of SUV4-20H2 antibody (Center) (Cat.# AP6511c) in mouse stomach tissue lysates (35ug/lane). SUV4-20H2 (arrow) was detected using the purified Pab.



SUV4-20H2 Antibody (Center) (Cat. #AP6511c) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **SUV4-20H2 Antibody (Center) - Background**

SUV420H2 is a histone methyltransferase that specifically trimethylates 'Lys-20' of histone H4. H4 'Lys-20' trimethylation represents a specific tag for epigenetic transcriptional repression. The protein mainly functions in pericentric heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin in these regions. SUV420H1 is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2).

#### **SUV4-20H2 Antibody (Center) - References**

Souza, P.P., BMC Cell Biol. 10, 41 (2009)  
Tryndyak, V.P., Cancer Biol. Ther. 5 (1), 65-70 (2006)

#### **SUV4-20H2 Antibody (Center) - Citations**

- [Regulation of Skeletal Muscle Stem Cell Quiescence by Suv4-20h1-Dependent Facultative Heterochromatin Formation.](#)