SUV4-20h2 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SUV4-20H2 (SUV420H2), Blocking Peptide
Full Product Name	SUV4-20H2 Antibody (Center) Blocking Peptide
Product Gene Name	SUV420H2 blocking peptide
Product Synonym Gene Name	KMT5C
Product Synonym 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
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the Center region of human SUV4-20H2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SUV4-20H2 peptide (MBS9226111) is used for blocking the activity of SUV4-20H2 antibody (MBS9209272)
Molecular Weight	10,821 Da
OMIM	613198
Cellular Location	Nucleus. Chromosome. Note: Associated with pericentric heterochromatin. CBX1 and CBX5 are required for the localization to pericentric heterochromatin (By similarity).
Related Product Information for SUV420H2 blocking peptide	Histone methyltransferase that specifically trimethylates 'Lys-20' of histone H4. 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. SUV420H1 is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2) (By similarity).
Other Notes	Small volumes of SUV420H2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SUV420H2 purchase	MBS9226111 is a blocking peptide targeting SUV420H2. Also known as SUV4-20H2 Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SUV420H2. It may not necessarily be applicable to this product.

NCBI GI #	74727906
NCBI GeneID	84787
NCBI Accession #	Q86Y97.1
UniProt Primary Accession #	Q86Y97
UniProt Secondary Accession #	Q8WZ10; Q9BRZ6
UniProt Related Accession #	Q86Y97
NCBI Official Full Name	Histone-lysine N-methyltransferase KMT5C
NCBI Official Synonym Full Names	lysine methyltransferase 5C

NCBI Official Symbol	KMT5C
NCBI Official Synonym Symbols	SUV420H2
UniProt Protein Name	Histone-lysine N-methyltransferase KMT5C
UniProt Synonym Protein Names	Lysine N-methyltransferase 5C; Lysine-specific methyltransferase 5C
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	KMT5C
UniProt Synonym Gene Names	Su(var)4-20 homolog 2; Suv4-20h2
UniProt Entry Name	KMT5C_HUMAN
NCBI Protein Information	histone-lysine N-methyltransferase KMT5C
NCBI Summary for SUV420H2	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]).[supplied by OMIM, Dec 2009]
UniProt Comments for SUV420H2	SUV420H2: Histone methyltransferase that specifically trimethylates 'Lys-20' of histone H4. 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. SUV420H1 is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2). Belongs to the histone-lysine methyltransferase family. Suvar4-20 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Amino Acid Metabolism - lysine degradation; EC 2.1.1.43; Methyltransferase; Methyltransferase, protein lysine Chromosomal Location of Human Ortholog: 19q13.42 Cellular Component: centric heterochromatin; nuclear heterochromatin; nucleoplasm Molecular Function: protein binding
Research Articles on SUV420H2	**1.** One of the most downregulated genes in response to SUV420H2 expression was the Src substrate, tensin-3, a focal adhesion protein that contributes to cancer cell migration.
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