

Rabbit KMT5C/SUV4-20h2 Polyclonal Antibody | anti-KMT5C antibody

KMT5C/SUV4-20h2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329102	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(88%), Bovine(100%), Horse(88%), Sheep(100%), Dog(100%)	ELISA

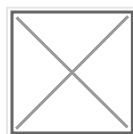
PRODUCT SYNONYMS

KMT5C/SUV4-20h2; Polyclonal Antibody; KMT5C/SUV4-20h2 Antibody; FLJ98627; Histone lysine N methyltransferase SUV420H2; Histone-lysine N-methyltransferase SUV420H2; KMT5C; Lysine N methyltransferase 5C; Lysine N-methyltransferase 5C; MGC2705; Su(var)4 20 homolog 2; Su(var)4-20 homolog 2; Suppressor of variegation 4 20 homolog 2; Suppressor of variegation 4-20 homolog 2; Suv4 20h2; Suv4-20h2; SUV420H2; SV422_HUMAN; anti-KMT5C antibody

PRODUCT SPECIFICATIONS

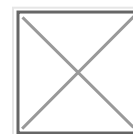
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(88%), Bovine(100%), Horse(88%), Sheep(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	KMT5C/SUV4-20h2 Antibody detects endogenous levels of total KMT5C/SUV4-20h2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	462
Applicable Applications for anti-KMT5C antibody	ELISA
Immunogen	A synthesized peptide derived from human KMT5C/SUV4-20h2, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA329102 staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329102) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from Mouse stomach, using KMT5C/SUV4-20h2 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from Hybridoma cells, using KMT5C/SUV4-20h2 Antibody.
The lane on the left was treated with blocking peptide.Observed bands: 60 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-KMT5C antibody	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). Subcellular Location: Nucleus. Chromosome. Note: Associated with pericentric heterochromatin. CBX1 and CBX5 are required for the localization to pericentric heterochromatin (By similarity). Subunit Structure: Homodimer (By similarity). Interacts with HP1 proteins CBX1, CBX3 and CBX5. Interacts with RB1 family proteins RB1, RBL1 and RBL2 (By similarity). Similarity: Belongs to the class V-like SAM-binding methyltransferase superfamily. Histone-lysine methyltransferase family. Suvar4-20 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	74727906
NCBI GeneID	84787
UniProt Accession #	Q86Y97
Molecular Weight	Observed Molecular Weight: (Observed)52kD, 60kD. Predicted Molecular Weight: (Calculated)52kDa.
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; Suv4-20h2
NCBI Protein Information	histone-lysine N-methyltransferase KMT5C
UniProt Protein Name	Histone-lysine N-methyltransferase SUV420H2
UniProt Gene Name	SUV420H2
UniProt Synonym Gene Names	KMT5C
UniProt Entry Name	SV422_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.