

Rabbit anti-Human, Mouse SUV39H2 Polyclonal Antibody | anti-SUV39H2 antibody

SUV39H2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325358	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

SUV39H2; Polyclonal Antibody; SUV39H2 Antibody; FLJ23414; H3 K9 HMTase 2; H3-K9-HMTase 2; Histone H3 K9 methyltransferase 2; Histone H3-K9 methyltransferase 2; Histone lysine N methyltransferase H3 lysine 9 specific 2; Histone lysine N methyltransferase SUV39H2; Histone-lysine N-methyltransferase SUV39H2; KMT1B; Lysine N methyltransferase 1B; Lysine N-methyltransferase 1B; sSuppressor of variegation 3 9 homolog 2 (Drosophila); Su(var)3 9 Drosophila homolog of 2; Su(var)3 9 homolog 2; Su(var)3-9 homolog 2; Suppressor of variegation 3 9 homolog 2; Suppressor of variegation 3-9 homolog 2; Suv39h2; SUV92_HUMAN; anti-SUV39H2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	SUV39H2 antibody detects endogenous levels of total SUV39H2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	410
Applicable Applications for anti-SUV39H2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SUV39h2, corresponding to a region within the internal amino acids
Subcellular Location	Nucleus. Chromosome > Centromere. Associates with centromeric constitutive heterochromatin.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (93%), Horse (93%), Sheep (93%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from HepG2, using SUV39H2 Antibody. Lane 1 was treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA325358 staining 293T by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HuvEC using SUV39H2 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SUV39H2 antibody

Function: Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3 using monomethylated H3 'Lys-9' as substrate. H3 'Lys-9' trimethylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Mainly functions in heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin at pericentric and telomere regions. H3 'Lys-9' trimethylation is also required to direct DNA methylation at pericentric repeats. SUV39H1 is targeted to histone H3 via its interaction with RB1 and is involved in many processes, such as cell cycle regulation, transcriptional repression and regulation of telomere length. May participate in regulation of higher-order chromatin organization during spermatogenesis. Recruited by the large PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1, contributes to the conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9' trimethylation.

Subunit Structure: Interacts with SMAD5. The large PER complex involved in the histone methylation is composed of at least PER2, CBX3, TRIM28, SUV39H1 and/or SUV39H2; CBX3 mediates the formation of the complex.

Similarity: Although the SET domain contains the active site of enzymatic activity, both pre-SET and post-SET domains are required for methyltransferase activity. The SET domain also participates in stable binding to heterochromatin (By similarity).In the pre-SET domain, Cys residues bind 3 zinc ions that are arranged in a triangular cluster; some of these Cys residues contribute to the binding of two zinc ions within the cluster. Belongs to the class V-like SAM-binding methyltransferase superfamily. Histone-lysine methyltransferase family. Suvar3-9 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	301171588
NCBI GeneID	79723
NCBI Accession #	NP_001180353.1
NCBI GenBank Nucleotide #	NM_001193424.1
UniProt Accession #	Q9H5I1; Q5JSS4; Q5JSS5; Q6I9Y3; Q8ND06; D3DRT4
Molecular Weight	Observed: 46 kD Predicted: 47 kDa
NCBI Official Full Name	histone-lysine N-methyltransferase SUV39H2 isoform 1
NCBI Official Synonym Full Names	suppressor of variegation 3-9 homolog 2
NCBI Official Symbol	SUV39H2
NCBI Official Synonym Symbols	KMT1B

NCBI Protein Information	histone-lysine N-methyltransferase SUV39H2
UniProt Protein Name	Histone-lysine N-methyltransferase SUV39H2
UniProt Gene Name	SUV39H2
UniProt Synonym Gene Names	KMT1B; H3-K9-HMTase 2; Su(var)3-9 homolog 2

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/suv39h2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325358>