Data Sheet (Cat.No.TMAC-03923)

Anti-SUV39H2 Antibody (8R663)

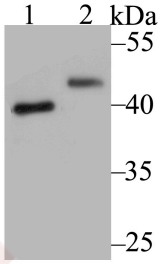
Product Details

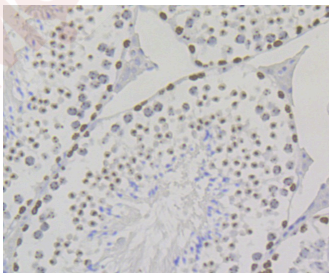
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 40/47 kDa.
Clone:	8R663
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of SUV39H2 on SiHa cell (1) and A549 cell (2) lysate using anti-SUV39H2 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-SUV39H2 antibody. Counter stained with hematoxylin.





Application:	IHC,IP,WB
Recommended	WB: 1:500-2000; IHC: 1:50-200; IP: 1:10-50

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized peptide: within Human SUV39H2 aa 350 to the C-terminus
Antigen Species:	Human
Uniprot ID:	Q9H5I1
Synonyms:	Suppressor of variegation 3-9 homolog 2;Lysine N methyltransferase 1B;SUV92_HUMAN; Suv39h2;Su(var)3 9 homolog 2;Lysine N-methyltransferase 1B;KMT1B;Histone lysine N methyltransferase SUV39H2;Su(var)3-9 homolog 2;Suppressor of variegation 3 9 homolog 2;Su (var)3 9 Drosophila homolog of 2;H3-K9-HMTase 2;FLJ23414;H3 K9 HMTase 2;Histone-lysine N-methyltransferase SUV39H2;Histone lysine N methyltransferase H3 lysine 9 specific 2; sSuppressor of variegation 3 9 homolog 2 (Drosophila);Histone H3-K9 methyltransferase 2; Histone H3 K9 methyltransferase 2

Research Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481