ARG54796
anti-KMT1B / SUV39H2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes KMT1B / SUV39H2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ChIP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	KMT1B / SUV39H2
Species	Human
Immunogen	Recombinant protein of Human SUV39H2 (NP_001180353.1)
Conjugation	Un-conjugated
Alternate Names	H3-K9-HMTase 2; KMT1B; Lysine N-methyltransferase 1B; Histone-lysine N-methyltransferase SUV39H2; EC 2.1.1.43; Su; Histone H3-K9 methyltransferase 2; var; Suppressor of variegation 3-9 homolog 2

Application Instructions

Application table

Application	Dilution
ChIP	1:20 - 1:100
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Mouse heart and SW620

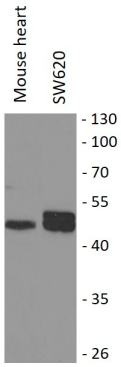
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 64707 Mouse GeneID: 79723 Human Swiss-port # Q9EQQ0 Mouse Swiss-port # Q9H5I1 Human
Gene Symbol	SUV39H2
Gene Full Name	suppressor of variegation 3-9 homolog 2 (Drosophila)
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. [UniProt]
Research Area	Gene Regulation antibody
Calculated Mw	47 kDa

Images



ARG54796 anti-KMT1B / SUV39H2 antibody WB image

Western blot: Mouse heart and SW620 cell lysates stained with ARG54796 anti-KMT1B / SUV39H2 antibody.