## Immunotag™ SUV91 Polyclonal Antibody

Antibody Specification		
Catalog No.	ITN2996	
Product Description	Immunotag™ SUV91 Polyclonal Antibody	
Size	50 μg, 100 μg	
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647	
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.	
Target Protein	SUV91	
Clonality	Polyclonal	
Storage/Stability	-20°C/1 year	
Application	WB,ELISA	
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000	
Concentration	1 mg/ml	
Reactive Species	Human,Mouse	
Host Species	Rabbit	
Immunogen	Synthesized peptide derived from part region of human protein	
Specificity	SUV91 Polyclonal Antibody detects endogenous levels of protein.	
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen	
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.	
Gene Name	SUV39H1 KMT1A SUV39H	
Accession No.	O43463 O54864	
Description	suppressor of variegation 3-9 homolog 1(SUV39H1) Homo sapiens This gene encodes an evolutionarily-conserved protein containing an N-terminal chromodomain and a C-terminal SET domain. The encoded protein is a histone methyltransferase that trimethylates lysine 9 of histone H3, which results in transcriptional gene silencing. Loss of function of this gene disrupts heterochromatin formation and may cause chromosome instability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013],	

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Cell Pathway/ Category	Lysine degradation,	
Protein Expression	B-cell,Epithelium,Lung,Retina,	
Subcellular Localization	chromosome, centromeric region,heterochromatin,condensed nuclear chromosome,nucleus,nuclear lamina,nucleoplasm,chromatin silencing complex,rDNA heterochromatin,	
Protein Function	catalytic activity:S-adenosyl-L-methionine + histone L-lysine = S-adenosyl-L-homocysteine + histone N(6)-methyl-L-lysinedevelopmental stage:Accumulates during mitosis at centromeres during prometaphase, but dissociates from the centromere at the meta- to anaphase transitiondomain: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 to stable binding to heterochromatin.,enzyme regulation:Inhibited by S-adenosyl-L-homocysteinefunction:Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3 using monomethylated H3 'Lys-9' as substrate. Also weakly methylates histone H1 (in vitro). 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 repression of MYOD1-stimulated differentiation, regulation of the control switch for exiting the cell cycle and entering differentiation, repression by the PML-RARA fusion protein, BMP-induced repression, repression of switch recombination to IgA and regulation of telomere length.,PTM:Phosphorylated on serine residues, and to a lesser degree, on threonine residues. The phosphorylated form is stabilized by SBF1 and is less active in its transcriptional repressor functionsimilarity:Belongs to the histone-Iysine methyltransferase family. Suvar3-9 subfamily.,similarity:Contains 1 chromo domainsimilarity:Contains 1 post-SET domainsimilarity:Contains 1 pre-SET domainsimilarity:Contains 1 pre-SET domainsimilarity:Contains 1 pre-SET domainsimilarity:C	
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.	