



Rabbit Anti-SET1A antibody

SL16555R

Product Name:	SET1A
Chinese Name:	SET1A蛋白抗体
Alias:	hSET1; Histone-lysine N-methyltransferase SETD1A; hSET1A; KMT2F; Lysine N methyltransferase 2F; Lysine N-methyltransferase 2F; SET domain containing 1A; SET domain containing protein 1A; SET domain-containing protein 1A; SET1; Set1 Ash2 histone methyltransferase complex subunit SET1; Set1/Ash2 histone methyltransferase complex subunit SET1; SET1A; SET1A_HUMAN; SETD1A.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,Chimpanzee, Rhesus monkey, Gorilla, Chinese Hamster, Orangut
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	186kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SET1A:21-120/1707
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	SET1A is a component of a histone methyltransferase (HMT) complex that produces mono-, di-, and trimethylated histone H3 at Lys4. The complex is the analog of the S.

cerevisiae Set1/COMPASS complex (Lee and Skalnik, 2005 [PubMed 16253997]). Also see SET1B (MIM 611055).[supplied by OMIM, Mar 2008]

Function:

Histone methyltransferase that specifically methylates 'Lys-4' of histone H3, when part of the SET1 histone methyltransferase (HMT) complex, but not if the neighboring 'Lys-9' residue is already methylated. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. The non-overlapping localization with SETD1B suggests that SETD1A and SETD1B make non-redundant contributions to the epigenetic control of chromatin structure and gene expression.

Subcellular Location:

Nucleus speckle. Chromosome. Localizes to a largely non-overlapping set of euchromatic nuclear speckles with SETD1B, suggesting that SETD1A and SETD1B each bind to a unique set of target genes.

Similarity:

Contains 1 post-SET domain.

Contains 1 RRM (RNA recognition motif) domain.

Contains 1 SET domain.

SWISS:

O15047

Gene ID:

9739

Database links:

[Entrez Gene: 9739](#) Human

[Entrez Gene: 233904](#) Mouse

[Omim: 611052](#) Human

[SwissProt: O15047](#) Human

[Unigene: 297483](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.