



## Rabbit Anti-SETDB1/KMT1E antibody

SL11670R

<b>Product Name:</b>	SETDB1/KMT1E
<b>Chinese Name:</b>	组蛋白H3K9甲基转移酶4抗体
<b>Alias:</b>	KMT1E / SETDB1; ERG-associated protein with SET domain; ESET; H3 K9 HMTase 4; H3 lysine 9 specific 4; H3-K9-HMTase 4; H3-K9-HMTase4; Histone H3 K9 methyltransferase 4; Histone H3-K9 methyltransferase 4; Histone lysine N methyltransferase; Histone-lysine N-methyltransferase SETDB1; KG1T; KIAA00067; KIAA0067; KMT1E; Lysine N-methyltransferase 1E; MGC90670; mKIAA0067; SET domain bifurcated 1; Set domain protein, bifurcated, 1; SETB; SETB1_HUMAN; SETDB1; Similar to DNA topoisomerase II.
文献引用 PubMed :	<p><b>Specific References(1)</b> SL11670R has been referenced in 1 publications.</p> <p><b>[IF=8.10]</b>Marco, Asaf, et al. "DNA CpG Methylation (5mC) and Its Derivative (5hmC) Alter Histone Post Translational Modifications at the Pomc Promoter, Affecting the Impact of Perinatal Diet on Leanness and Obesity of the Offspring." Diabetes (2016): db151608.WB, IP;Rat.</p> <p style="text-align: right;"><a href="#">PubMed:27217481</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	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.
<b>Molecular weight:</b>	143kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human KMT1E:201-300/1291

<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>This gene encodes a histone methyltransferase which regulates histone methylation, gene silencing, and transcriptional repression. This gene has been identified as a target for treatment in Huntington Disease, given that gene silencing and transcription dysfunction likely play a role in the disease pathogenesis. Alternatively spliced transcript variants of this gene have been described.[provided by RefSeq, Jun 2011]</p> <p><b>Function:</b> Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3. 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 euchromatin regions, thereby playing a central role in the silencing of euchromatic genes. H3 'Lys-9' trimethylation is coordinated with DNA methylation. Probably forms a complex with MBD1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-9' trimethylation. Its activity is dependent on MBD1 and is heritably maintained through DNA replication by being recruited by CAF-1. SETDB1 is targeted to histone H3 by TRIM28/TIF1B, a factor recruited by KRAB zinc-finger proteins.</p> <p><b>Subunit:</b> Interacts with MBD1; interaction is abolished when MBD1 is sumoylated. Interacts with ATF7IP and ATF7IP2; the interaction with ATF7IP is required to stimulate histone methyltransferase activity and facilitate the conversion of dimethylated to trimethylated H3 'Lys-9'. During DNA replication, it is recruited by SETDB1 to form a S phase-specific complex that facilitates methylation of H3 'Lys-9' during replication-coupled chromatin assembly and is at least composed of the CAF-1 subunit CHAF1A, MBD1 and SETDB1. Interacts with ERG, TRIM28/TIF1B, CBX1, CBX5, CHD7, DNMT3A, HDAC1, HDAC2, NLK, PPARG, SIN3A, SIN3B, DNMT3B and SUMO2. Interacts with MPHOSPH8.</p> <p><b>Subcellular Location:</b> Nucleus. Chromosome. Associated with non-pericentromeric regions of chromatin. Excluded from nucleoli and islands of condensed chromatin.</p> <p><b>Tissue Specificity:</b> Widely expressed. High expression in testis.</p> <p><b>Similarity:</b> Belongs to the histone-lysine methyltransferase family. Suvar3-9 subfamily. Contains 1</p>

MBD (methyl-CpG-binding) domain.  
Contains 1 post-SET domain.  
Contains 1 pre-SET domain.  
Contains 1 SET domain.  
Contains 2 Tudor domains.

**SWISS:**  
Q15047

**Gene ID:**  
9869

**Database links:**

[Entrez Gene: 9869](#) Human

[Entrez Gene: 84505](#) Mouse

[Oimim: 604396](#) Human

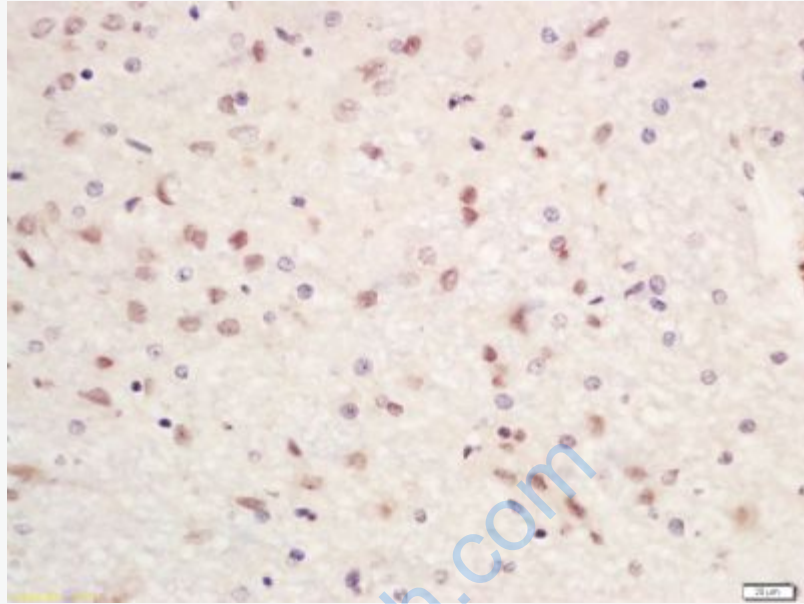
[SwissProt: Q15047](#) Human

[SwissProt: O88974](#) Mouse

[Unigene: 643565](#) Human

**Important Note:**

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



**Picture:**

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-SETDB1 / KMT1E Polyclonal Antibody, Unconjugated(SL11670R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining