



Rabbit Anti-H3-K4-HMTase SETD7 antibody

SL6191R

Product Name:	H3-K4-HMTase SETD7
Chinese Name:	组蛋白H4-K4甲基转移酶抗体
Alias:	FLJ21193; H3 K4 HMTase; H3-K4-HMTase SETD7; H4 lysine 4 specific; Histone H3 K4 methyltransferase; Histone H3 lysine 4 specific methyltransferase; Histone H3-K4 methyltransferase SETD7; Histone H4 K4 methyltransferase; Histone lysine N methyltransferase; Histone lysine N methyltransferase H3 lysine 4 specific SET7; Histone-lysine N-methyltransferase SETD7; KIAA1717; KMT7; Lysine methyltransferase; Lysine N-methyltransferase 7; OTTHUMP00000164543; OTTHUMP00000220049; SET 7; SET 7/9; SET 9; SET D7; SET domain containing (lysine methyltransferase) 7; SET domain containing protein 7; SET domain containing protein 8; SET domain-containing protein 7; SET7; SET7/9; SET9; Setd7; SETD7 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	41kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Histone H4 K4 methyltransferase SETD7:271-366/366
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:	<p>Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation. Also able to demethylated 'Lys-372' of p53/TP53 in vitro.</p> <p>Function: Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation.</p> <p>Subunit: Interacts with IPF1/PDX-1.</p> <p>Subcellular Location: Nucleus. Chromosome (Probable).</p> <p>Tissue Specificity: Widely expressed. Expressed in pancreatic islets.</p> <p>Similarity: Belongs to the histone-lysine methyltransferase family. SET7 subfamily. Contains 3 MORN repeats. Contains 1 SET domain.</p> <p>SWISS: Q8WTS6</p> <p>Gene ID: 80854</p> <p>Database links:</p>

[Entrez Gene: 80854](#)Human

[Entrez Gene: 73251](#)Mouse

[Omim: 606594](#)Human

[SwissProt: Q8WTS6](#)Human

[SwissProt: Q8VHL1](#)Mouse

[Unigene: 480792](#)Human

[Unigene: 192111](#)Mouse

Important Note:

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

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