SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-H3-K4-HMTase SETD7 antibody

Catalog Number: SL6191R

FOR RESEARCH USE ONLY

[DATASHEET]

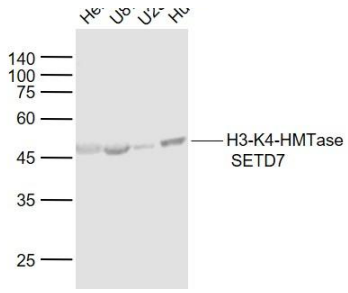
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	H3-K4-HMTase SETD7
Immunogen:	KLH conjugated synthetic peptide derived from human SETD7: 271-366/366
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse)
Predicted MW.:	41kDa
Subcellular Location:	The nucleus
Background:	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. **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

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	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. **Subunit:** Interacts with IPF1/PDX-1. **Subcellular Location:** Nucleus. Chromosome (Probable). **Tissue Specificity:** Widely expressed. Expressed in pancreatic islets. **Similarity:** Belongs to the histone-lysine methyltransferase family. SET7 subfamily. Contains 3 MORN repeats. Contains 1 SET domain. **Database links:** **Entrez Gene:** 80854 Human **Entrez Gene:** 73251 Mouse Omim: 606594 Human **SwissProt:** Q8WTS6 Human **SwissProt:** Q8VHL1 Mouse **Unigene:** 480792 Human **Unigene:** 192111 Mouse

[VALIDATION IMAGES]



Sample:
Lane 1: Hela (Human) Cell Lysate at 30 ug
Lane 2: U87MG (Human) Cell Lysate at 30 ug
Lane 3: U251 (Human) Cell Lysate at 30 ug
Lane 4: Huvec (Human) Cell Lysate at 30 ug
Primary: Anti-H3-K4-HMTase SETD7 (SL6191R) IgG at 1/20000 dilution
Predicted band size: 49 kD
Observed band size: 47 kD

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