SunLong Biotech Co.,LTD
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Rabbit Anti-PRMT6 antibody

SL6063R

Product Name	PRMT6
Chinese Name	组蛋白精氨酸甲基转移酶 6 抗体
Alias	PRMT 6; PRMT6; ANM6_HUMAN; Heterogeneous nuclear ribonucleoprotein methyltransferase like protein 6; Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 6; Histone-arginine N-methyltransferase PRMT6; HMT1 hnRNP methyltransferase like 6; HRMT1L6; prmt6; Protein arginine methyltransferase 6; Protein arginine N methyltransferase 6; Protein arginine N-methyltransferase 6.
Research Area	Chromatin and nuclear signals Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	42kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PRMT6: 301-375/375
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.

Attention

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

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Product Detail

Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and asymmetrical dimethylarginine (aDMA), with a strong preference for the formation of aDMA. Preferentially methylates arginyl residues present in a glycine and arginine-rich domain and displays preference for monomethylated substrates. Specifically mediates the asymmetric dimethylation of histone H3 'Arg-2' to form H3R2me2a. H3R2me2a represents a specific tag for epigenetic transcriptional repression and is mutually exclusive with methylation on histone H3 'Lys-4' (H3K4me2 and H3K4me3). It thereby acts as a transcription corepressor of various genes such as HOXA2. Also methylates histone H2A and H4 'Arg-3' (H2AR3me and H4R3me, respectively). Acts as a regulator of DNA base excision during DNA repair by mediating the methylation of DNA polymerase beta (POLB), leading to stimulate the polymerase activity by enhancing DNA binding and processivity. Methylates HMGA1. May play a role in innate immunity against HIV-1 in case of infection by methylating and impairing the function of various HIV-1 proteins such as Tat, Rev and Nucleocapsid protein p7 (NC).

Function:

Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and asymmetrical dimethylarginine (aDMA), with a strong preference for the formation of aDMA. Preferentially methylates arginyl residues present in a glycine and arginine-rich domain and displays preference for monomethylated substrates. Specifically mediates the asymmetric dimethylation of histone H3 'Arg-2' to form H3R2me2a. H3R2me2a represents a specific tag for epigenetic transcriptional repression and is mutually exclusive with methylation on histone H3 'Lys-4' (H3K4me2 and H3K4me3). It thereby acts as a transcription corepressor of various genes such as HOXA2. Also methylates histone H2A and H4 'Arg-3' (H2AR3me and H4R3me, respectively). Acts as a regulator of DNA base excision during DNA repair by mediating the methylation of DNA polymerase beta (POLB), leading to stimulate the polymerase activity by enhancing DNA binding and processivity. Methylates HMGA1. May play a role in innate immunity against HIV-1 in case of infection by methylating and impairing the function of various HIV-1 proteins such as Tat, Rev and Nucleocapsid protein p7 (NC).

Subunit:

Interacts with (and methylates) HIV-1 Tat, Rev and Nucleocapsid protein p7 (NC).

Subcellular Location:

Nucleus.

Tissue Specificity:

Highly expressed in kidney and testes.

Post-translational modifications:
Automethylated.

Similarity:
Belongs to the protein arginine N-methyltransferase family. PRMT6 subfamily.

SWISS:
Q96LA8

Gene ID:
55170

Database links:

Entrez Gene: 55170 Human

Entrez Gene: 99890 Mouse

Entrez Gene: 295384 Rat

Omim: 608274 Human

SwissProt: Q96LA8 Human

SwissProt: Q6NZB1 Mouse

Unigene: 26006 Human

Unigene: 36115 Mouse

Unigene: 393526 Mouse

Unigene: 18530 Ra

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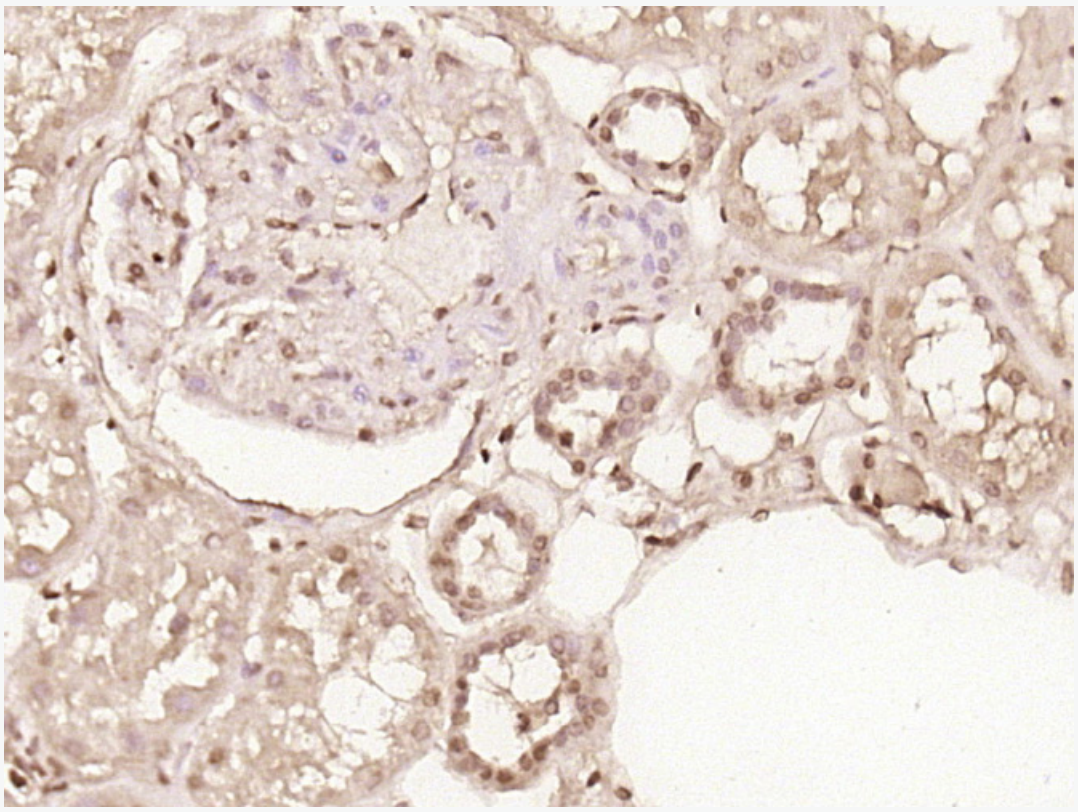
Product Picture



Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PRMT6) Polyclonal Antibody, Unconjugated (SL6063R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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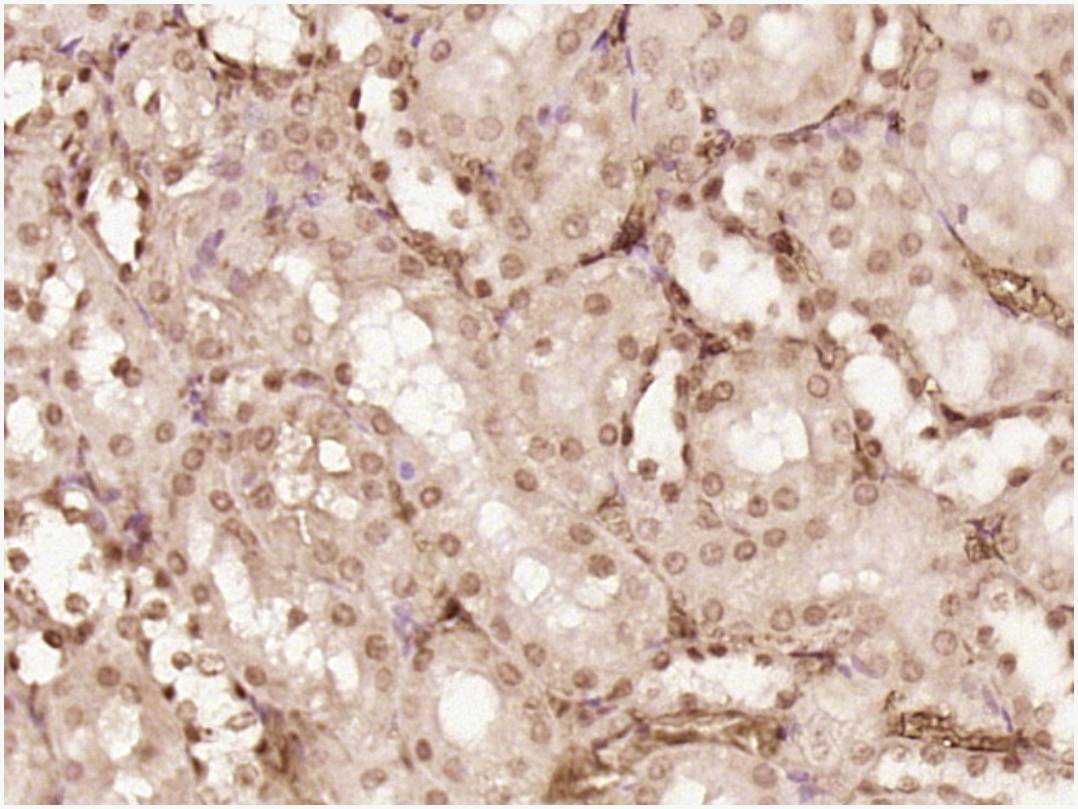

Paraformaldehyde-fixed, paraffin embedded (Rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PRMT6) Polyclonal Antibody, Unconjugated (SL6063R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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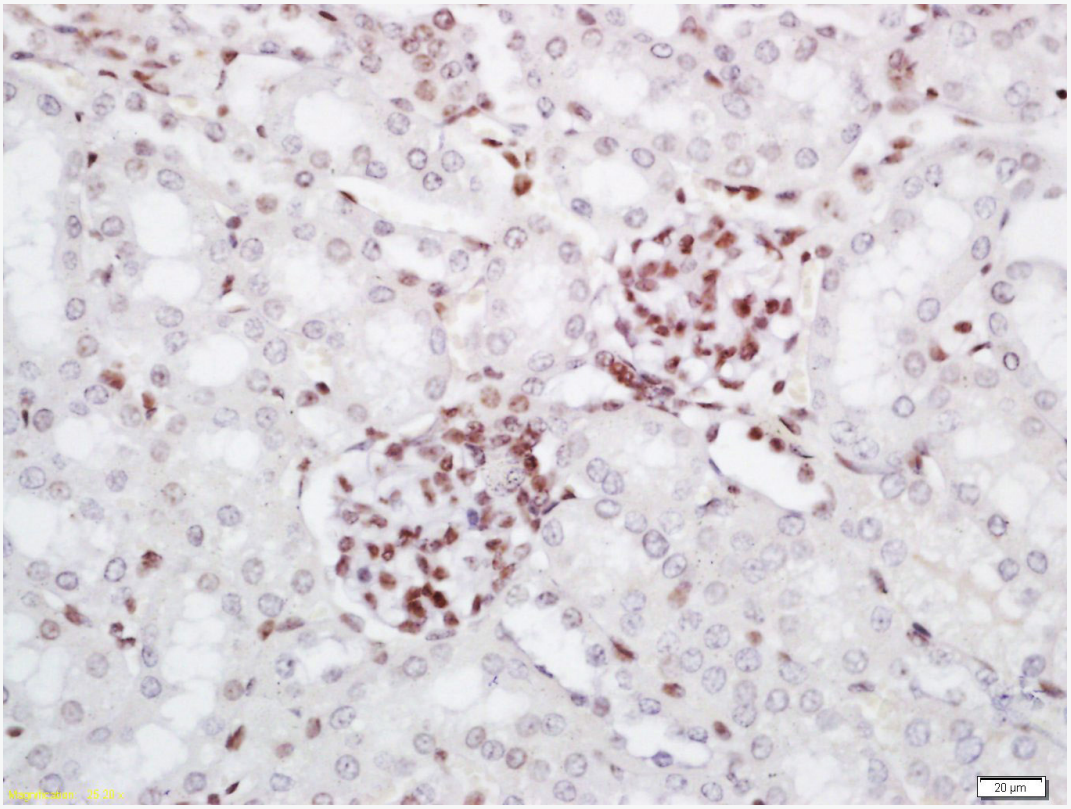

Tissue/cell: mouse kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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℃ for 20 min;

Incubation: Anti-PRMT6 Polyclonal Antibody, Unconjugated(SL6063R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining