



Rabbit Anti-KDM5B antibody

SL6139R

Product Name:	KDM5B
Chinese Name:	组蛋白去甲基化酶JARID1B抗体
Alias:	Cancer/testis antigen 31; CT31; Histone demethylase JARID1B; JARID1B; Jumonji AT rich interactive domain 1B; Jumonji/ARID domain-containing protein 1B; Kdm5b; KDM5B_HUMAN; Lysine specific demethylase 5B; Lysine-specific demethylase 5B ; PLU-1; PÜT1; RB-binding protein; rbbp2h1a ; RBP2-H1; Retinoblastoma-binding protein 2 homolog 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3ug/testIF=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:	170kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human KDM5B/PLU1/Jarid1B:65-165/1544
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:	Histone demethylase that demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9' or H3 'Lys-27'.

Demethylates trimethylated, dimethylated and monomethylated H3 'Lys-4'. Acts as a transcriptional corepressor for FOXG1B and PAX9. Favors the proliferation of breast cancer cells by repressing tumor suppressor genes such as BRCA1 and HOXA5. In contrast, may act as a tumor suppressor for melanoma.

Function:

Histone demethylase that demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9' or H3 'Lys-27'.

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Subunit:

Interacts with FOXG1B, PAX9, MYC, MYCN and RB1. Interacts with HDAC1, HDAC4, HDAC5 and HDAC7.

Subcellular Location:

Nucleus. Ubiquitously expressed, with highest levels in testis. Down-regulated in melanoma and glioblastoma. Up-regulated in breast cancer (at protein level).

Tissue Specificity:

Ubiquitously expressed, with highest levels in testis. Down-regulated in melanoma and glioblastoma. Up-regulated in breast cancer (at protein level).

Similarity:

Belongs to the JARID1 histone demethylase family.

Contains 1 ARID domain.

Contains 1 JmjC domain.

Contains 1 JmjN domain.

Contains 3 PHD-type zinc fingers.

SWISS:

Q9UGL1

Gene ID:

10765

Database links:

[Entrez Gene: 10765](#)Human

[Entrez Gene: 75605](#)Mouse

[Entrez Gene: 304809](#)Rat

[Omim: 605393](#)Human

[SwissProt: Q9UGL1](#)Human

[SwissProt: Q80Y84](#)Mouse

[Unigene: 443650](#)Human

[Unigene: 28995](#)Mouse

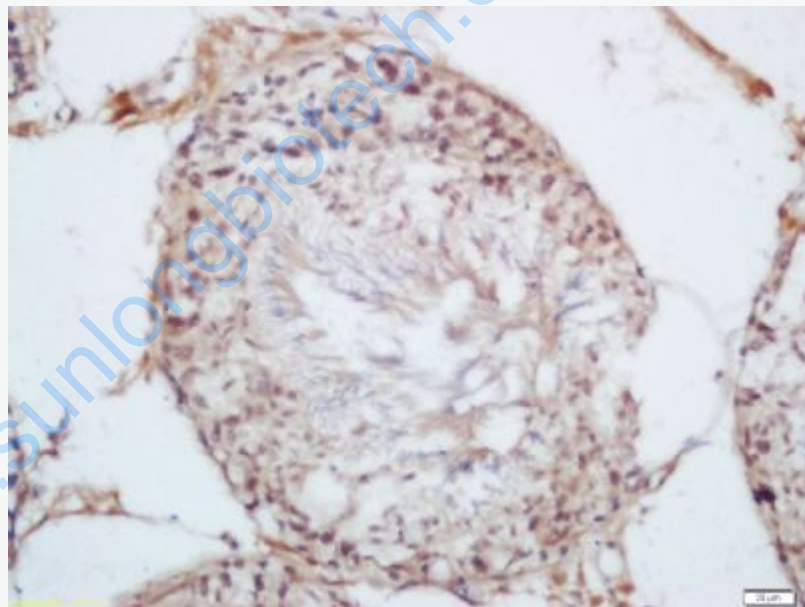
[Unigene: 391994](#)Mouse

[Unigene: 22866](#)Rat

Important Note:

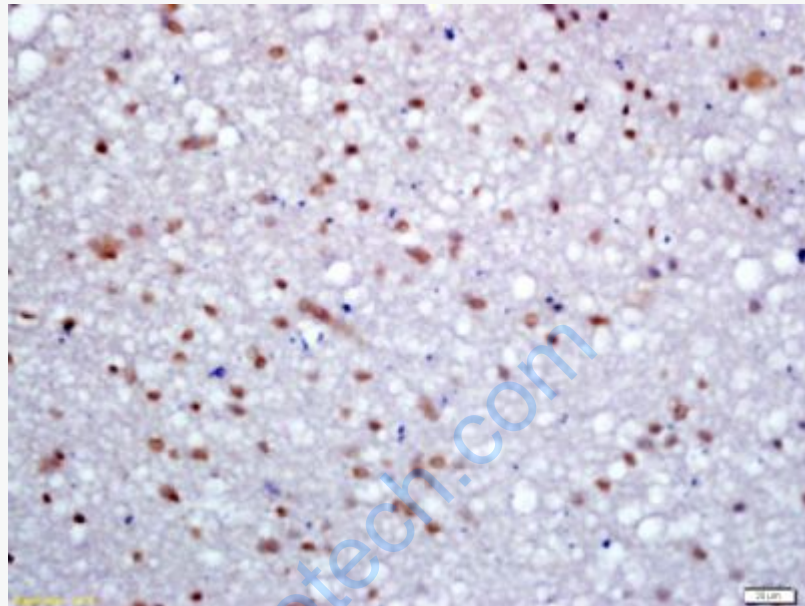
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Picture:



Tissue/cell: rat testis 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-KDM5B Polyclonal Antibody, Unconjugated(SL6139R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

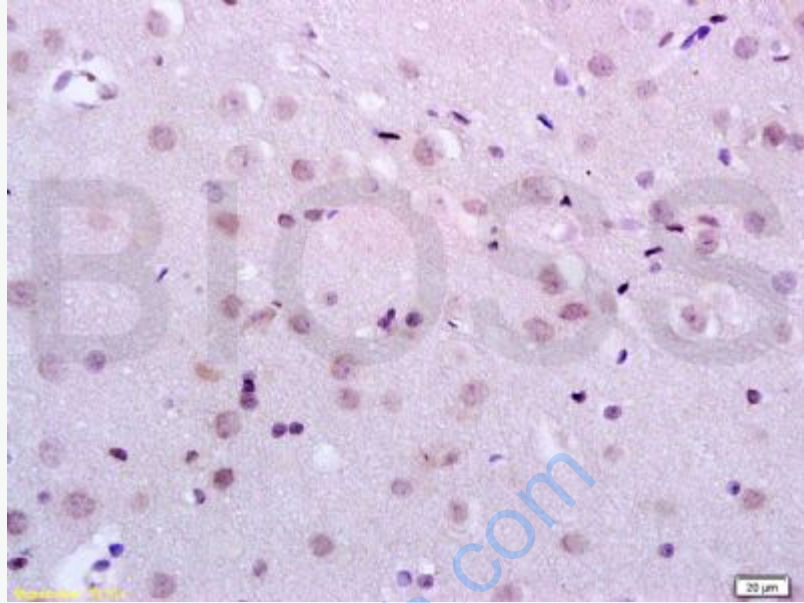
DAB(C-0010) staining



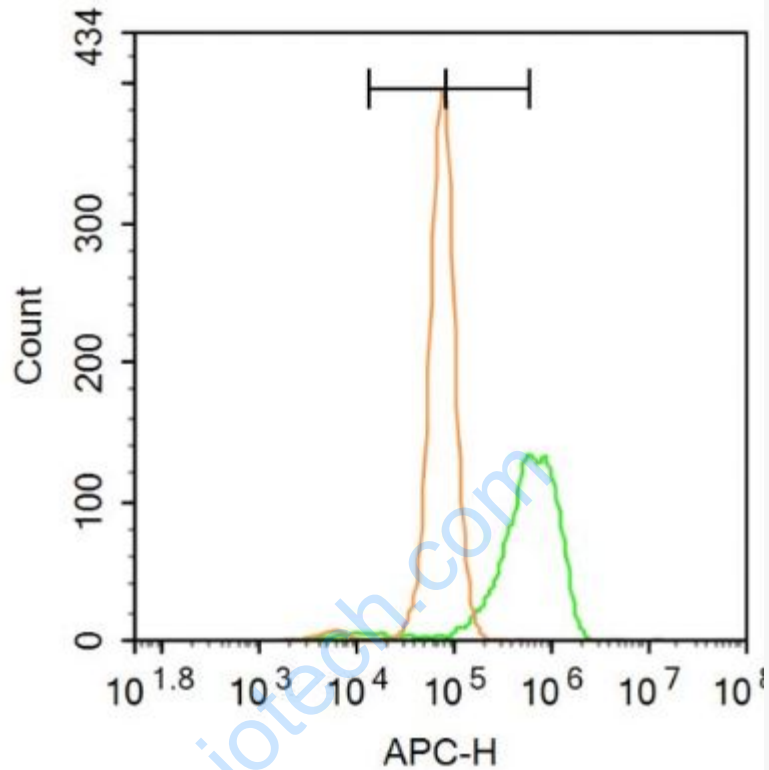
Tissue/cell: Human glioma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

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-KDM5B Polyclonal Antibody, Unconjugated(SL6139R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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-KDM5B/PLU1/Jarid1B Polyclonal Antibody,
Unconjugated(SL6139R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:A431.

Primary Antibody (green line): Rabbit Anti-KDM5B antibody (SL6139R)

Dilution: $3\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF647

Dilution: $3\mu\text{g} / \text{test}$.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C . The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room

temperature. The secondary antibody used for 40 min at room temperature.

Acquisition of 20,000 events was performed.

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