

Anti-KDM3B Antibody [1A5]

HA721169



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IHC-P, IF-Cell
Molecular Wt:	Predicted band size: 191 kDa
Clone number:	1A5

Description:	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Demethylation of Lys residue generates formaldehyde and succinate. May have tumor suppressor activity. Its gene is located in the 5q region of the genome which is deleted in del(5q) interstitial deletion, a frequent deletion found in myeloid leukemias and myelodysplasias, suggesting that it may be a good candidate for the del(5q) tumor suppressor gene. A multitude of publications have implicated JMJD1A as a driver of tumorigenesis in a variety of different cancers. Less evidence hints at JMJD1B and JMJD1C as potential oncogenic proteins. And there is persuasive data to suggest that JMJD1B is a tumor suppressor, especially in AML, and JMJD1A and JMJD1C may also be tumor suppressive in germ cell tumors. Tissue specificity: Ubiquitous. Highly expressed in placenta, skeletal muscle, kidney, heart and liver.
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Immunogen:	Recombinant protein within human KDM3B aa 251-500.
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Positive control:	Hela cell lysate, NIH/3T3 cell lysate, A431, Hela, human testis tissue, human fallopian tube tissue.
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Subcellular location:	Nucleus
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Database links:	SwissProt: Q7LBC6 Human Q6ZPY7 Mouse
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Recommended Dilutions:

WB	1:1,000
IF-Cell	1:100
IHC-P	1:400-1:2,000

Storage Buffer:	PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
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Storage Instruction:	Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.
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Purity:	Protein A affinity purified.
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Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

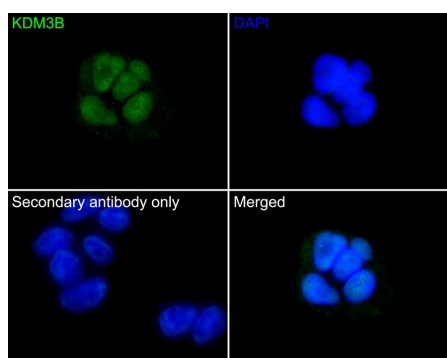


Fig1: Immunocytochemistry analysis of A431 cells labeling KDM3B with Rabbit anti-KDM3B antibody (HA721169) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-KDM3B antibody (HA721169) at 1/100 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

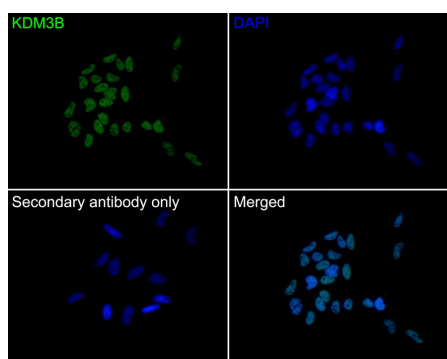


Fig2: Immunocytochemistry analysis of HeLa cells labeling KDM3B with Rabbit anti-KDM3B antibody (HA721169) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-KDM3B antibody (HA721169) at 1/100 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

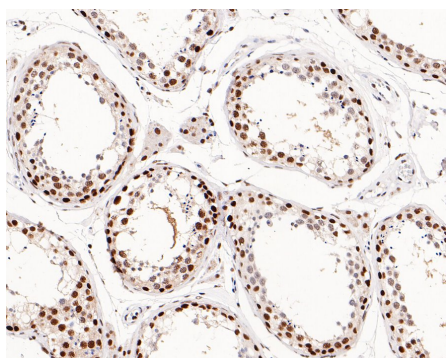


Fig3: Immunohistochemical analysis of paraffin-embedded human testis tissue with Rabbit anti-KDM3B antibody (HA721169) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721169) at 1/2,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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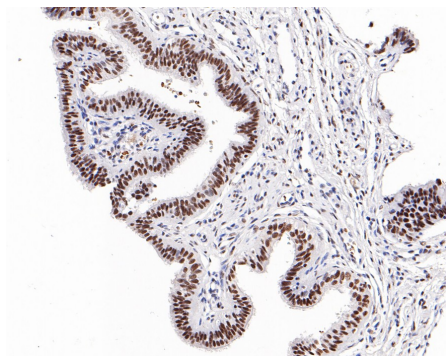


Fig4: Immunohistochemical analysis of paraffin-embedded human fallopian tube tissue with Rabbit anti-KDM3B antibody (HA721169) at 1/400 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721169) at 1/400 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

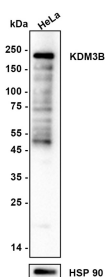


Fig5: Western blot analysis of KDM3B on different lysates with Rabbit anti-KDM3B antibody (HA721169) at 1/1,000 dilution.

Lane 1: HeLa (Human cervical adenocarcinoma cell) cell lysate

Exposure time: 25 seconds; ECL: K1802

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary antibody: HA721169, 1/1,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 191.6 kDa

Observed band size: 191 kDa

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Yuan Sui, Ruicai Gu, Ralf Janknecht. Crucial Functions of the JMJD1/KDM3 Epigenetic Regulators in Cancer. Mol Cancer Res. 2021 Jan; 19(1): 3–13.
2. Yamane K., Toumazou C., Tsukada Y.I., Erdjument-Bromage H., Tempst P., Wong J., Zhang Y. JHDM2A, a JmjC-containing H3K9 demethylase, facilitates transcription activation by androgen receptor. Cell 125:483-495(2006).

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