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# JMJD2B Antibody (N-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**

**Catalog # AP9393A**

## Specification

### JMJD2B Antibody (N-term) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P, FC,E** |
| Primary Accession | O94953 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **121897** |
| Antigen Region | **4-31** |

### JMJD2B Antibody (N-term) - Additional Information

**Gene ID** 23030

**Other Names**
Lysine-specific demethylase 4B, 11411-, JmjC domain-containing histone demethylation protein 3B, Jumonji domain-containing protein 2B, KDM4B, JHDM3B, JMJD2B, KIAA0876

**Target/Specificity**
This JMJD2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4-31 amino acids from the N-terminal region of human JMJD2B.

**Dilution**
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
JMJD2B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### JMJD2B Antibody (N-term) - Protein Information

**Name** KDM4B

**Synonyms** JHDM3B, JMJD2B, KIAA0876

**Function** Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys- 20'. Only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and KDM4D. Demethylation of Lys residue generates formaldehyde and succinate (PubMed:16603238, PubMed:28262558). Plays a critical role in the development of the central nervous system (CNS).

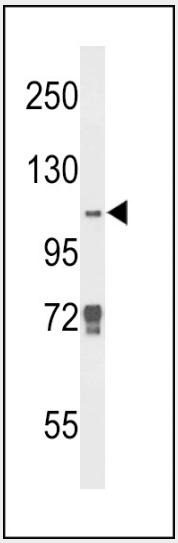
**Cellular Location**
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:15927959}

## JMJD2B Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

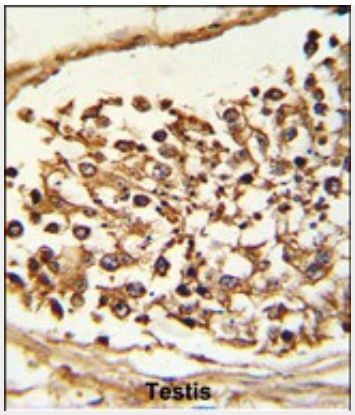
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## JMJD2B Antibody (N-term) - Images

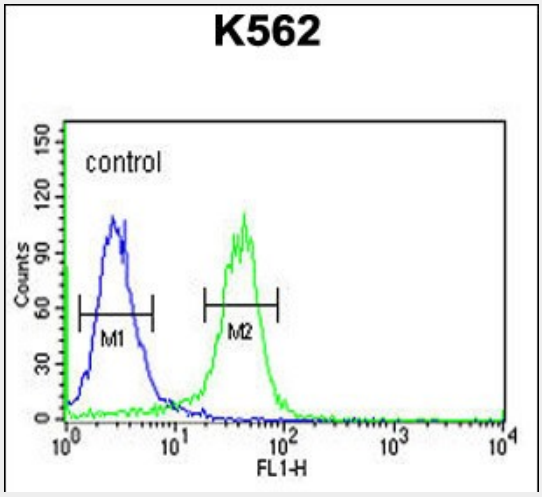



Western blot analysis of JMJD2B Antibody (N-term) (Cat. #AP9393a) in K562 cell line lysates (35ug/lane). JMJD2B (arrow) was detected using the purified Pab.

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Formalin-fixed and paraffin-embedded human Testis tissue reacted with JMJD2B Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




JMJD2B Antibody (N-term) (Cat. #AP9393a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## JMJD2B Antibody (N-term) - Background

KDM4B / JMJD2B is a jumonji domain containing histone demethylase that specifically demethylates histone H3 at K9 and K36.

## JMJD2B Antibody (N-term) - References

Beyer, S., et al. J. Biol. Chem. 283(52):36542-36552(2008)
Pollard, P.J., et al. Biochem. J. 416(3):387-394(2008)
Katoh, Y., et al. Int. J. Mol. Med. 20(2):269-273(2007)
Whetstine, J.R., et al. Cell 125(3):467-481(2006)
Gray, S.G., et al. J. Biol. Chem. 280(31):28507-28518(2005)