

JMJD2B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9393A

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O94953
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23110
Calculated MW	121897
Antigen Region	4-31

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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}

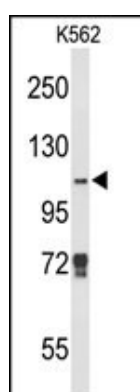
Background

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

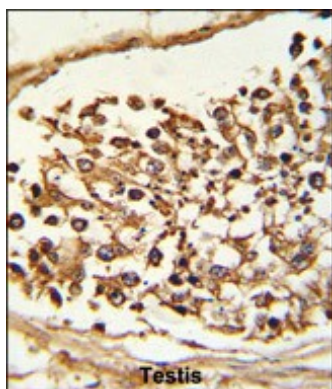
References

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)

Images

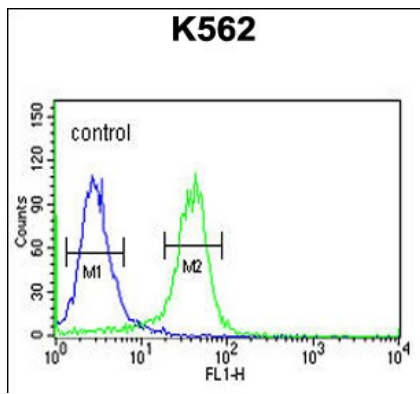


Western blot analysis of JMJD2B Antibody (N-term) (Cat. #AP9393a) in K562 cell line lysates (35ug/lane). JMJD2B (arrow) was detected using the purified Pab.



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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.