10320 Camino Santa Fe, Suite G
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JMJD2B Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP9393a

Specification

JMJD2B Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O94953

JMJD2B Antibody (N-term) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

JMJD2B Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

JMJD2B Antibody (N-term) Blocking Peptide - Images

JMJD2B Antibody (N-term) Blocking Peptide - Background

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

JMJD2B Antibody (N-term) Blocking Peptide - 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)