

Phospho-JMJD2B(S566) Blocking Peptide
Synthetic peptide
Catalog # BP3754a**Specification**

Phospho-JMJD2B(S566) Blocking Peptide - Product InformationPrimary Accession [O94953](#)**Phospho-JMJD2B(S566) 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

Target/Specificity

The synthetic peptide sequence is selected from aa 562-575 of HUMAN KDM4B

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.

Phospho-JMJD2B(S566) 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}

Phospho-JMJD2B(S566) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-JMJD2B(S566) Blocking Peptide - Images

Phospho-JMJD2B(S566) Blocking Peptide - Background

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.

Phospho-JMJD2B(S566) Blocking Peptide - References

Yang, J., et al. Cancer Res. 70(16):6456-6466(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
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)