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Phospho-JMJD2B(T305) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3680a

Specification

Phospho-JMJD2B(T305) Antibody Blocking peptide - Product Information

Primary Accession O94953

Phospho-JMJD2B(T305) Antibody 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 used to generate the antibody AP3680a was selected from the region of human Phospho-JMJD2B-pT305. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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(T305) Antibody 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(T305) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-JMJD2B(T305) Antibody Blocking peptide - Images

Phospho-JMJD2B(T305) Antibody Blocking peptide - Background

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

Phospho-JMJD2B(T305) Antibody 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)