

Phospho-JMJD2A(Y547) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3726a**Specification**

Phospho-JMJD2A(Y547) Antibody Blocking peptide - Product InformationPrimary Accession [O75164](#)**Phospho-JMJD2A(Y547) Antibody Blocking peptide - Additional Information****Gene ID** 9682**Other Names**

Lysine-specific demethylase 4A, 11411-, JmjC domain-containing histone demethylation protein 3A, Jumonji domain-containing protein 2A, KDM4A, JHDM3A, JMJD2, JMJD2A, KIAA0677

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-JMJD2A(Y547) Antibody Blocking peptide - Protein Information**Name** KDM4A**Synonyms** JHDM3A, JMJD2, JMJD2A, KIAA0677**Function**

Histone demethylase that specifically demethylates 'Lys-9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code (PubMed:26741168). Does not demethylate histone H3 'Lys- 4', H3 'Lys-27' nor H4 'Lys-20'. Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' residue, while it has no activity on mono- and dimethylated residues. Demethylation of Lys residue generates formaldehyde and succinate. Participates in transcriptional repression of ASCL2 and E2F-responsive promoters via the recruitment of histone deacetylases and NCOR1, respectively.

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:15927959, ECO:0000269|PubMed:16024779}

Tissue Location

Ubiquitous..

Phospho-JMJD2A(Y547) Antibody Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-JMJD2A(Y547) Antibody Blocking peptide - Images

Phospho-JMJD2A(Y547) Antibody Blocking peptide - Background

JMJD2A is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein containing a JmjN domain, a JmjC domain, a JD2H domain, two TUDOR domains, and two PHD-type zinc fingers. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form, and as a transcriptional repressor.

Phospho-JMJD2A(Y547) Antibody Blocking peptide - References

Trojer, P., et al. J. Biol. Chem. 284(13):8395-8405(2009) Lee, J., et al. Nat. Struct. Mol. Biol. 15(1):109-111(2008) Katoh, Y., et al. Int. J. Mol. Med. 20(2):269-273(2007)