

**JHDM2a Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1193a****Specification**

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**JHDM2a Antibody (N-term) Blocking Peptide - Product Information**Primary Accession  
Other Accession[O9Y4C1](#)  
[NP\\_060903](#)**JHDM2a Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 55818**Other Names**

Lysine-specific demethylase 3A, 11411-, JmjC domain-containing histone demethylation protein 2A, Jumonji domain-containing protein 1A, KDM3A, JHDM2A, JMJD1, JMJD1A, KIAA0742, TSGA

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1193a](/products/AP1193a) was selected from the N-term region of human JHDM2a. 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.

**JHDM2a Antibody (N-term) Blocking Peptide - Protein Information****Name** KDM3A**Synonyms** JHDM2A, JMJD1, JMJD1A, KIAA0742, TSGA**Function**

Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Preferentially demethylates mono- and dimethylated H3 'Lys-9' residue, with a preference for dimethylated residue, while it has weak or no activity on trimethylated H3 'Lys-9'. Demethylation of Lys residue generates formaldehyde and succinate. Involved in hormone-dependent transcriptional activation, by participating in recruitment to androgen-receptor target genes, resulting in H3 'Lys-9' demethylation and transcriptional activation. Involved in spermatogenesis by regulating expression of target genes such as PRM1 and TNP1 which are required for packaging and condensation of sperm chromatin. Involved in

obesity resistance through regulation of metabolic genes such as PPARA and UCP1.

#### **Cellular Location**

Cytoplasm. Nucleus. Note=Nuclear in round spermatids. When spermatids start to elongate, localizes to the cytoplasm where it forms distinct foci which disappear in mature spermatozoa (By similarity).

#### **JHDM2a Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **JHDM2a Antibody (N-term) Blocking Peptide - Images**

#### **JHDM2a Antibody (N-term) Blocking Peptide - Background**

JHDM2a is a zinc finger protein that contains a jumonji domain. It is a histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. This protein preferentially demethylates mono- and dimethylated H3 'Lys-9' residue, with a preference for dimethylated residue, while it has weak or no activity on trimethylated H3 'Lys-9'. Demethylation of Lys residue generates formaldehyde and succinate. It is involved in hormone-dependent transcriptional activation, by participating in recruitment to androgen-receptor target genes, resulting in H3 'Lys-9' demethylation and transcriptional activation.

#### **JHDM2a Antibody (N-term) Blocking Peptide - References**

Wellmann,S., Biochem. Biophys. Res. Commun. 372 (4), 892-897 (2008)Yamane,K., Cell 125 (3), 483-495 (2006)