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JMJD1A Blocking Peptide
Catalog # PBV10116b

Specification

JMJD1A Blocking Peptide - Product Information

Primary Accession	Q9Y4C1
Gene ID	55818
Calculated MW	147341

JMJD1A Blocking Peptide - Additional Information

Gene ID 55818

Application & Usage	**The peptide is used for blocking the antibody activity of JMJD1A. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.**

Other Names
Lysine-specific demethylase 3A, 1.14.11.-, JmjC domain-containing histone demethylation protein 2A, Jumonji domain-containing protein 1A, KDM3A, JHDM2A, JMJD1, JMJD1A, KIAA0742, TSGA

Target/Specificity
JMJD1A

Formulation
50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
JMJD1A Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

JMJD1A 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).

JMJD1A Blocking Peptide - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

JMJD1A Blocking Peptide - Images