

**KDM4A Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2161a****Specification****KDM4A Antibody - Product Information**

Application	<b>WB, FC, ICC, E</b>
Primary Accession	<a href="#">O75164</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>120.6kDa KDa</b>

**Description**

This gene 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.

**Immunogen**

Purified recombinant fragment of human KDM4A (AA: 932-1057) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**KDM4A Antibody - Additional Information**

**Gene ID** 9682

**Other Names**

Lysine-specific demethylase 4A, 1.14.11.-, JmjC domain-containing histone demethylation protein 3A, Jumonji domain-containing protein 2A, KDM4A, JHDM3A, JMJD2, JMJD2A, KIAA0677

**Dilution**

WB~~1/500 - 1/2000

FC~~1:10~50

ICC~~N/A

E~~1/10000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

KDM4A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**KDM4A Antibody - 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:<a href="http://www.uniprot.org/citations/26741168" target="\_blank">26741168</a>, PubMed:<a href="http://www.uniprot.org/citations/21768309" target="\_blank">21768309</a>). 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..

**KDM4A Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)