

**JMJD2a polyclonal antibody**  
**Purified Rabbit Polyclonal Antibody**  
**Catalog # ADN10247**

**Specification**

**JMJD2a polyclonal antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>E, WB</b>           |
| Primary Accession | <a href="#">O75164</a> |
| Reactivity        | <b>Human</b>           |
| Host              | <b>Rabbit</b>          |
| Clonality         | <b>Polyclonal</b>      |
| Calculated MW     | <b>120662</b>          |

**JMJD2a polyclonal 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

**Target/Specificity**

JMJD2a

**Precautions**

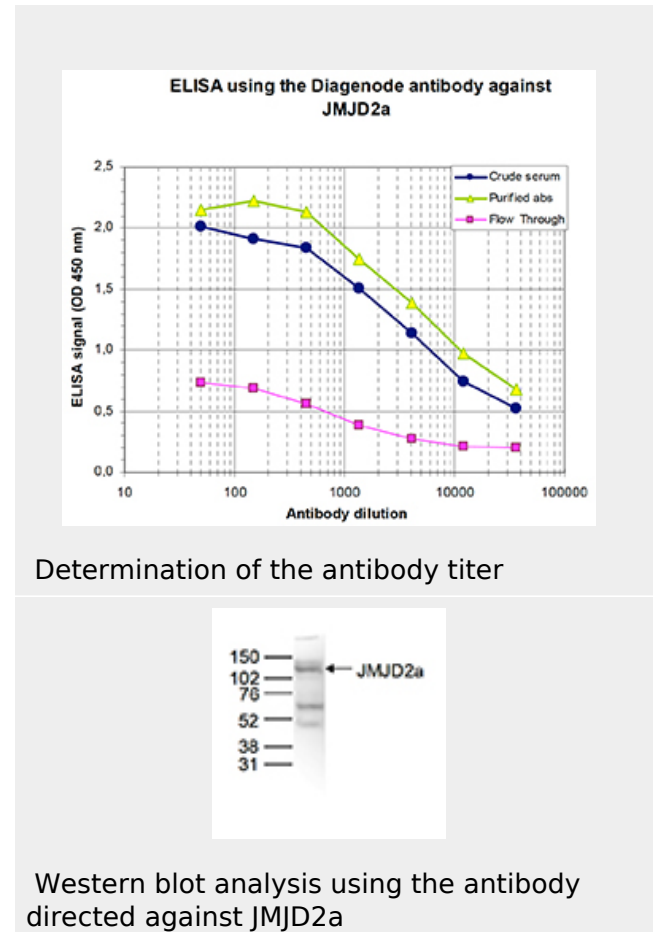
JMJD2a polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**JMJD2a polyclonal antibody - Protein Information**

**Name KDM4A**

**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>). 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



**JMJD2a polyclonal antibody - Background**

Histone demethylase that specifically demethylates 'Lys- 9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code. 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.

**JMJD2a polyclonal antibody - References**

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..

Ishikawa K.,et al.DNA Res. 5:169-176(1998).  
Gregory S.G.,et al.Nature 441:315-321(2006).  
Gray S.G.,et al.J. Biol. Chem.  
280:28507-28518(2005).  
Zhang D.,et al.Mol. Cell. Biol.  
25:6404-6414(2005).  
Whetstine J.R.,et al.Cell 125:467-481(2006).

**JMJD2a polyclonal 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](#)