

## JMJD2A Antibody

Rabbit Polyclonal Antibody  
Catalog # ABV11729

### Product Information

---

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">O75164</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	120662

### Additional Information

---

<b>Gene ID</b>	9682
<b>Positive Control</b>	Western blot: DLD1 cell lysate
<b>Application &amp; Usage</b>	Western blot: 1:200 dilution. Not recommended for FACS and IHC based on probable cross reactivity with other JMJD containing proteins.
<b>Alias Symbol</b>	JMJD2A
<b>Other Names</b>	Jumonji Domain Containing 2A; KDM4A; Lysine-Specific Demethylase 4A
<b>Appearance</b>	Colorless liquid
<b>Formulation</b>	100 $\mu$ l of antibody in TBS, pH 7.4, containing 50% glycerol, 0.5 mg/ml BSA, and 0.02% sodium azide.
<b>Reconstitution &amp; Storage</b>	-20 °C
<b>Background Descriptions</b>	
<b>Precautions</b>	JMJD2A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

---

<b>Name</b>	KDM4A
<b>Synonyms</b>	JHDM3A, JMJD2, JMJD2A, KIAA0677
<b>Function</b>	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="#">16603238</a> , PubMed: <a href="#">26741168</a> , PubMed: <a href="#">21768309</a> ). Does not demethylate histone H3 'Lys-4', H3 'Lys-27' nor H4 'Lys-20' (PubMed: <a href="#">16603238</a> , PubMed: <a href="#">26741168</a> , PubMed: <a href="#">21768309</a> ). Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' residue, while it has no activity on

mono- and dimethylated residues (PubMed:[16603238](#), PubMed:[26741168](#), PubMed:[21768309](#)). Demethylation of Lys residue generates formaldehyde and succinate (PubMed:[16603238](#)). Also able to demethylate histone H1-4 methylated at 'Lys-26' (H1.4K26me1, H1.4K26me2 and H1.4K26me3) (PubMed:[19144645](#), PubMed:[30156264](#)). Participates in transcriptional repression of ASCL2 and E2F-responsive promoters via the recruitment of histone deacetylases and NCOR1, respectively (PubMed:[16024779](#)).

#### Cellular Location

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

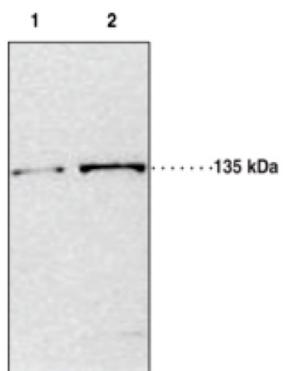
#### Tissue Location

Ubiquitous..

## Background

Jumonji Domain containing 2A (JMJD2A) is a lysine specific demethylase with emerging roles in histone modification or epigenetic remodeling. This JMJD2A polyclonal antibody was raised against an N-terminal recombinant fragment of JMJD2A. This fragment includes amino acids 1-350 including the JMJN and JMJC domains but not the two LAP/PHD zinc finger or Tudor domains of the 1,064 amino acid protein. JMJD2A is detected at 135 kDa by western blotting using a DLD1 cell lysate as a positive control. Also, the expression of JMJD2A varies by tissue, and northern blotting suggests skeletal muscle as a negative control and lung as a positive control tissue.

## Images



WB using JMJD2A pAb. Lane 1: DLD1 cell lysate(30  $\mu$ g);  
Lane2: DLD1 cell lysate(60  $\mu$ g);

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.