

JMJD2A Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11729**Specification**

JMJD2A Antibody - Product Information

Application	WB
Primary Accession	O75164
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	120662

JMJD2A Antibody - Additional Information**Gene ID** 9682Positive Control
Application & Usage**Western blot: DLD1 cell lysate**
Western blot: 1:200 dilution. Not
recommended for FACS and IHC based on
probable cross reactivity with other JMJD
containing proteins.
JMJD2A

Alias Symbol

Other Names

Jumonji Domain Containing 2A; KDM4A; Lysine-Specific Demethylase 4A

Appearance

Colorless liquid

Formulation

100 µl of antibody in TBS, pH 7.4, containing 50% glycerol, 0.5 mg/ml BSA, and 0.02% sodium azide.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

JMJD2A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

JMJD2A 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:26741168). 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}

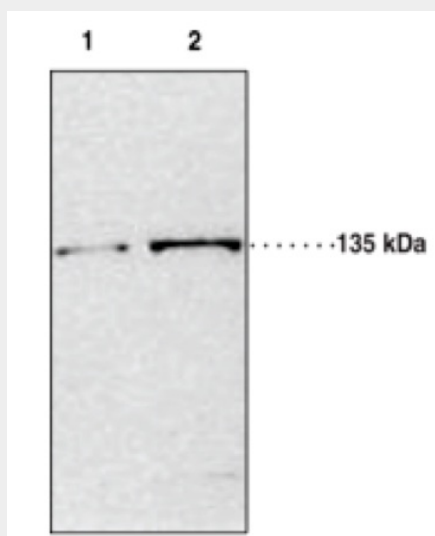
Tissue Location

Ubiquitous..

JMJD2A 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](#)

JMJD2A Antibody - Images

WB using JMJD2A pAb. Lane 1: DLD1 cell lysate(30 µg); Lane2: DLD1 cell lysate(60 µg);

JMJD2A Antibody - 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.