10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

JMJD2A Antibody

Rabbit Polyclonal Antibody
Catalog # ABV11729

Product Information

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

Additional Information

Gene ID	9682
Positive Control	Western blot: DLD1 cell lysate
Application & Usage	Western blot: 1:200 dilution. Not recommended for FACS and IHC based on probable cross reactivity with other JMJD containing proteins.
Alias Symbol	JMJD2A
Other Names	Jumonji Domain Containing 2A; KDM4A; Lysine-Specific Demethylase 4A
Appearance	Colorless liquid
Formulation	100 □l 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.

Protein Information

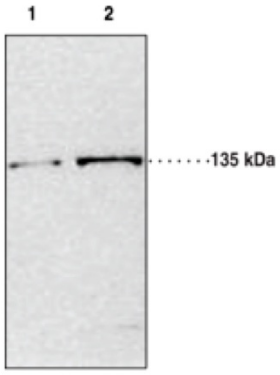
Name	KDM4A
Synonyms	JHDM3A, JMJD2, JMJD2A, KIAA0677
Function	Histone demethylase that specifically demethylates 'Lys-9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code (PubMed:16603238, PubMed:26741168, PubMed:21768309). Does not demethylate histone H3 'Lys-4', H3 'Lys-27' nor H4 'Lys-20' (PubMed:16603238, PubMed:26741168, PubMed:21768309). 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 µg); Lane2: DLD1 cell lysate(60 µg);

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