

KDM4A Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2161a

Product Information

Application	WB, FC, ICC, E
Primary Accession	O75164
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6E10G4
Isotype	IgG1
Calculated MW	120662
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

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.

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 , PubMed: 21768309). 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..

References

1.Asian Pac J Cancer Prev. 2014;15(7):3051-6.2.J Cell Biochem. 2012 Apr;113(4):1368-76.

Images

