

KDM4A / JHDM3A / JMJD2A Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS13770**Specification**

KDM4A / JHDM3A / JMJD2A Antibody (Internal) - Product Information

Application	WB, IHC
Primary Accession	O75164
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	121kDa KDa

KDM4A / JHDM3A / JMJD2A Antibody (Internal) - 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

Human JMJD2A

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

KDM4A / JHDM3A / JMJD2A Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

KDM4A / JHDM3A / JMJD2A Antibody (Internal) - 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}

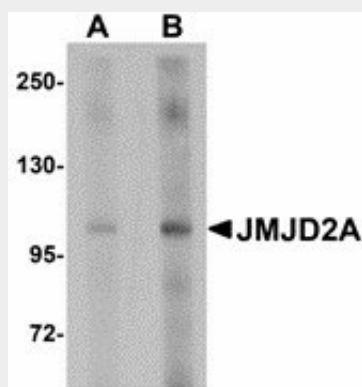
Tissue Location

Ubiquitous..

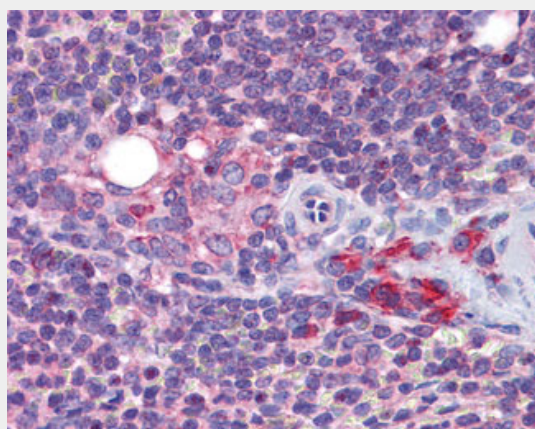
KDM4A / JHDM3A / JMJD2A Antibody (Internal) - Protocols

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](#)

KDM4A / JHDM3A / JMJD2A Antibody (Internal) - Images

Western blot of JMJD2A in rat liver tissue lysate with JMJD2A antibody at (A) 1 and (B) 2 ug/ml.



Anti-KDM4A / JMJD2A antibody IHC of human spleen.

KDM4A / JHDM3A / JMJD2A Antibody (Internal) - 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.

KDM4A / JHDM3A / JMJD2A Antibody (Internal) - References

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Gregory S.G.,et al.Nature 441:315-321(2006).
Gray S.G.,et al.J. Biol. Chem. 280:28507-28518(2005).
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