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

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}

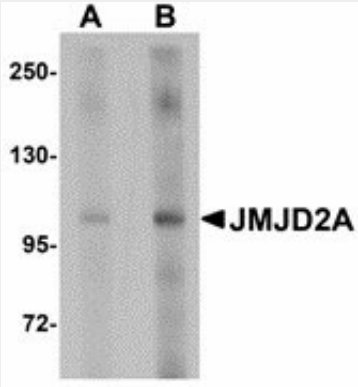
Tissue Location
Ubiquitous..

KDM4A / JHDM3A / JMJD2A Antibody (Internal) - Protocols

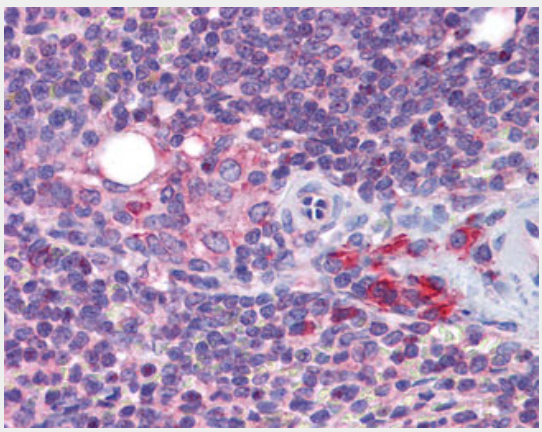
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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

Ishikawa K.,et al.DNA Res. 5:169-176(1998).
Gregory S.G.,et al.Nature 441:315-321(2006).
Gray S.G.,et al.J. Biol. Chem. 280:28507-28518(2005).
Zhang D.,et al.Mol. Cell. Biol. 25:6404-6414(2005).
Whetstine J.R.,et al.Cell 125:467-481(2006).