JMJD2A Mouse mAb

CatalogNo: YM0389

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,IHC,IF,ELISA

MW
- 121kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:200-1:1000
IF 1:200-1:1000
ELISA 1:10000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant fragment of human JMJD2A expressed in E. Coli.
Specificity	JMJD2A Monoclonal Antibody detects endogenous levels of JMJD2A protein.

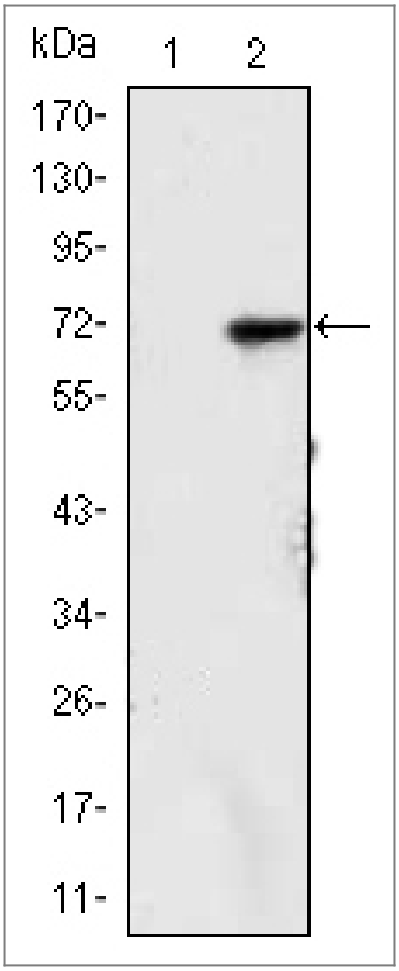
Target Information

Gene name	KDM4A
Protein Name	Lysine-specific demethylase 4A

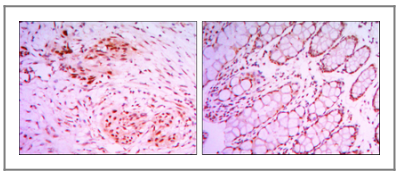
Organism	Gene ID	UniProt ID
Human	9682;	O75164;
Mouse		Q8BW72;

Cellular Localization	Nucleus .
Tissue specificity	Ubiquitous.
Function	cofactor:Binds 1 Fe(2+) ion per subunit.,Domain:The 2 Tudor domains recognize and bind methylated histone H3 'Lys-4' residue. Double Tudor domain has an interdigitated structure and the unusual fold is required for its ability to bind methylated histone tails. Trimethylated H3 'Lys-4' is bound in a cage of 3 aromatic residues, 2 of which are from the Tudor domain 2, while the binding specificity is determined by side-chain interactions involving residues from the Tudor domain 1. The Tudor domains are able to bind trimethylated histone H3 'Lys-4', trimethylated histone H3 'Lys-9', di- and trimethylated H4 'Lys-20'.,Function: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.,similarity:Belongs to the JHDM3 histone demethylase family.,similarity:Contains 1 JmjC domain.,similarity:Contains 1 JmjN domain.,similarity:Contains 2 PHD-type zinc fingers.,similarity:Contains 2 Tudor domains.,subunit:Interacts with histone deacetylase proteins HDAC1, HDAC2 and HDAC3. Interacts with RB and NCOR1. Interacts with HTLV-1 Tax protein.,tissue specificity:Ubiquitous.,

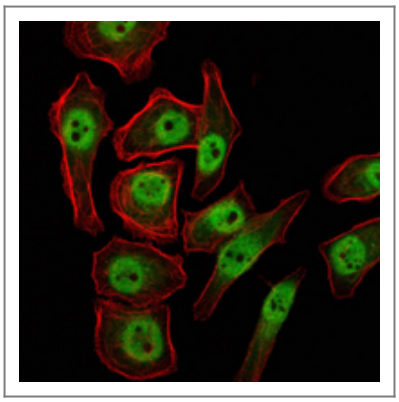
Validation Data



Western Blot analysis using JMJD2A Monoclonal Antibody against HEK293 (1) and JMJD2A-hIgGFc transfected HEK293 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded colon cancer tissues (left) and human larynx cancer tissues (right) with DAB staining using JMJD2A Monoclonal Antibody.



Immunofluorescence analysis of NTERA-2 cells using JMJD2A Monoclonal Antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Contact information

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Please scan the QR code to access additional product information:
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