

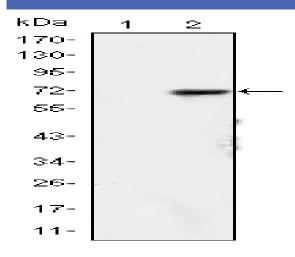
JMJD2A Monoclonal Antibody

Catalog No :	YM0389
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	JMJD2A
Gene Name :	KDM4A
Protein Name :	Lysine-specific demethylase 4A
Human Gene Id :	9682
Human Swiss Prot	O75164
No:	
Mouse Swiss Prot No :	Q8BW72
Immunogen :	Purified recombinant fragment of human JMJD2A expressed in E. Coli.
Specificity :	JMJD2A Monoclonal Antibody detects endogenous levels of JMJD2A protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	121kD
P References :	1. Genome Res. 2004 Sep;14(9):1711-8. 2. Nat Methods. 2005 Aug;2(8):591-8. 3. Cell. 2006 May 19;125(4):691-702.



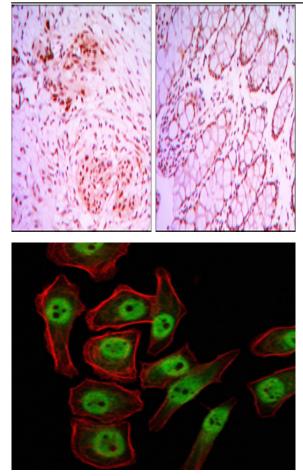
Background :	This gene is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein containing a JmjN domain, a JmjC domain, a JD2H domain, two TUDOR domains, and two PHD-type zinc fingers. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form, and as a transcriptional repressor. [provided by RefSeq, Apr 2009],
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 'Lys-4', H3 'Lys-27' nor H4 'Lys-20'. Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' r
Subcellular Location :	Nucleus .
Expression :	Ubiquitous.

Products Images



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.