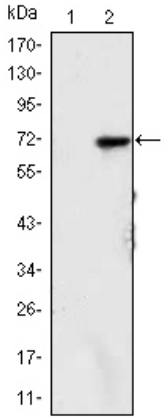
JMJD2A Monoclonal Antibody

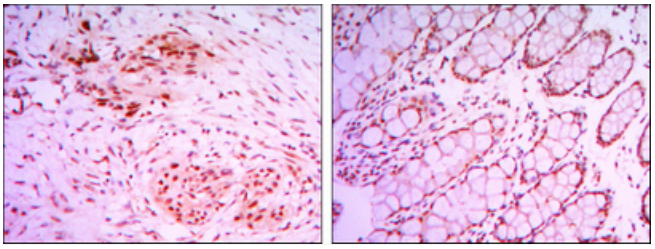
Catalog No	YP-Ab-00996
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;ELISA
Gene Name	KDM4A
Immunogen	Purified recombinant fragment of human JMJD2A expressed in E. Coli.
Specificity	JMJD2A Monoclonal Antibody detects endogenous levels of JMJD2A protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	JMJD2;JmjC domain-containing histone demethylation protein 3A;JHDM3A; EC:1.14.11.66;[histone;JMJD2A;KDM4A;Lysine-specific demethylase 4A; KIAA0677;Jumonji domain-containing protein 2A
Observed Band	
Calculated Molecular Weight	121kD
Cell Pathway	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' r
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

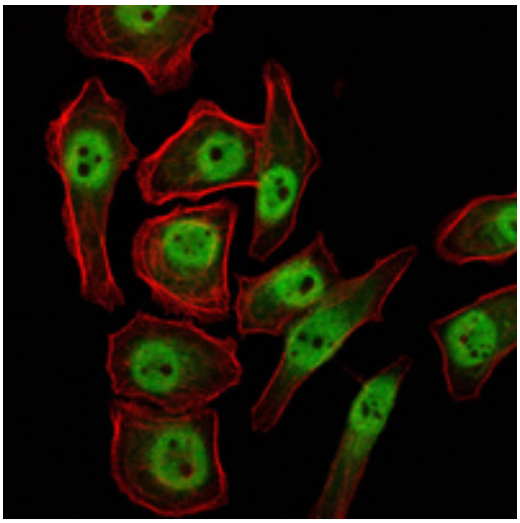
Products Images



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.