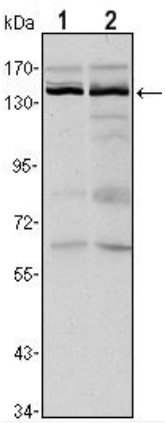
JMJD1A Monoclonal Antibody

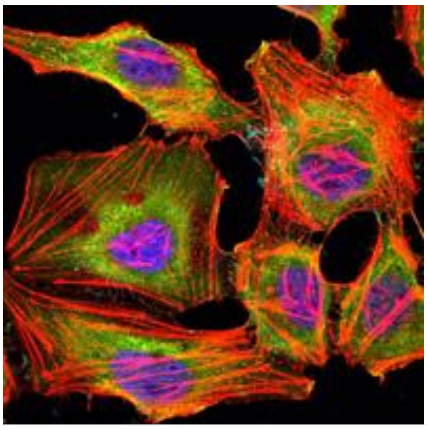
Catalog No	YP-Ab-00995
Isotype	IgG
Reactivity	Human
Applications	WB;IF;ELISA
Gene Name	KDM3A
Protein Name	Lysine-specific demethylase 3A
Immunogen	Purified recombinant fragment of human JMJD1A expressed in E. Coli.
Specificity	JMJD1A Monoclonal Antibody detects endogenous levels of JMJD1A protein.
Formulation	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. 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	KDM3A; JHDM2A; JMJD1; JMJD1A; KIAA0742; TSGA; Lysine-specific demethylase 3A; JmjC domain-containing histone demethylation protein 2A; Jumonji domain-containing protein 1A
Calculated Molecular Weight	147kD
Cell Pathway	Cytoplasm . Nucleus . Nuclear in round spermatids. When spermatids start to elongate, localizes to the cytoplasm where it forms distinct foci which disappear in mature spermatozoa (By similarity). .
Tissue Specificity	Adrenal gland,Brain,Fetal kidney,Salivary gland,Testis,
Function	cofactor:Binds 1 Fe(2+) ion per subunit.,domain:Leu-Xaa-Xaa-Leu-Leu (LXXLL) motifs are known to mediate the association with nuclear receptors.,domain:The JmjC domain and the C6-type zinc-finger are required for the demethylation activity.,function:Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Preferentially demethylates mono- and dimethylated H3 'Lys-9' residue, with a preference for dimethylated residue, while it has weak or no activity on trimethylated H3 'Lys-9'. Demethylation of Lys residue generates formaldehyde and succinate. Involved in hormone-dependent transcriptional activation, by participating in recruitment to androgen-receptor target genes, resulting in H3 'Lys-9' demethylation and transcriptional activation. Involved in spermatogenesis by regulating expression of target genes such as PRM1 and TMP1

Background	This gene encodes a zinc finger protein that contains a jumonji domain and may play a role in hormone-dependent transcriptional activation. Alternative splicing results in multiple transcript variants. [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 JMJD1A Monoclonal Antibody against HeLa (1) and HepG2 (2) cell lysate.



Immunofluorescence analysis of Hela cells using JMJD1A Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.