

JMJD1A Monoclonal Antibody

Catalog No :	YM0388
Reactivity :	Human
Applications :	WB;IF;ELISA
Target :	JMJD1A
Fields :	>>Thermogenesis
Gene Name :	KDM3A
Protein Name :	Lysine-specific demethylase 3A
Human Gene Id :	55818
Human Swiss Prot No :	Q9Y4C1
Mouse Swiss Prot No :	Q6PCM1
Immunogen :	Purified recombinant fragment of human JMJD1A expressed in E. Coli.
Specificity :	JMJD1A Monoclonal Antibody detects endogenous levels of JMJD1A 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. 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 :	147kD

P References :

1. DNA Res. 1998 Oct 30;5(5):277-86.
2. Proc Natl Acad Sci U S A. 2004 Aug 17;101(33):12130-5.
3. Nature. 2005 Apr 7;434(7034):724-31.

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],

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

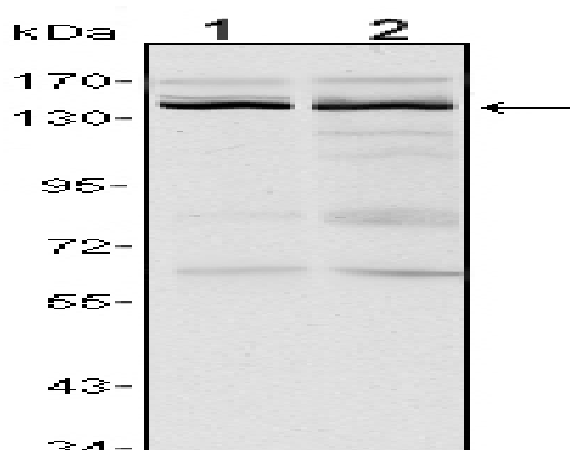
Subcellular Location :

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). .

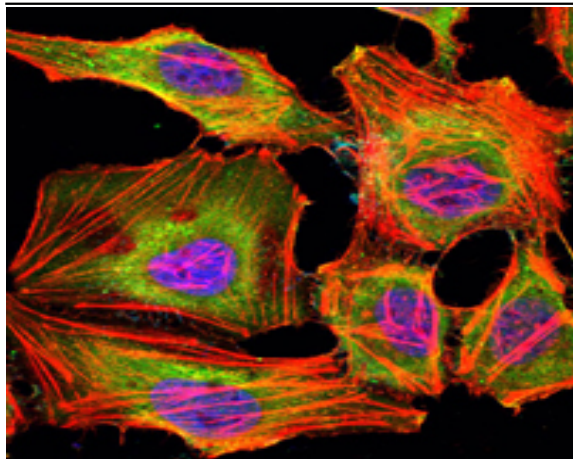
Expression :

Adrenal gland, Brain, Fetal kidney, Salivary gland, Testis,

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.