

## JMJD1A Monoclonal Antibody

<b>Catalog No :</b>	YM0388
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	JMJD1A
<b>Fields :</b>	>>Thermogenesis
<b>Gene Name :</b>	KDM3A
<b>Protein Name :</b>	Lysine-specific demethylase 3A
<b>Human Gene Id :</b>	55818
<b>Human Swiss Prot No :</b>	Q9Y4C1
<b>Mouse Swiss Prot No :</b>	Q6PCM1
<b>Immunogen :</b>	Purified recombinant fragment of human JMJD1A expressed in E. Coli.
<b>Specificity :</b>	JMJD1A Monoclonal Antibody detects endogenous levels of JMJD1A protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	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 :**

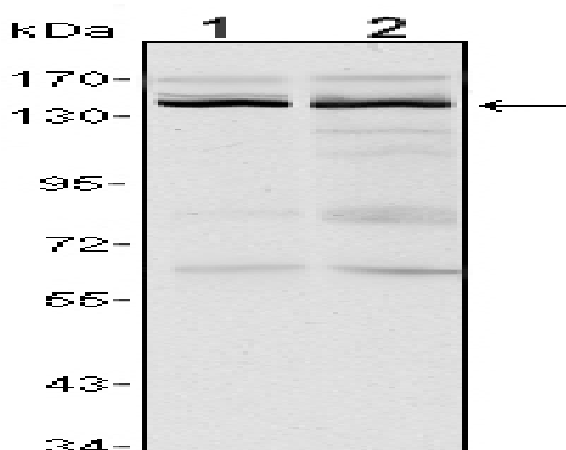
cofactor: Binds 1 Fe(2+) ion per subunit., domain: Leu-Xaa-Xaa-Leu-Leu (LXXLL) motifs are known to mediate the association with nuclear receptors., domain: The JmjC domain and the C6-type zinc-finger are required for the demethylation activity., function: Histone demethylase that specifically demethylates '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 :**

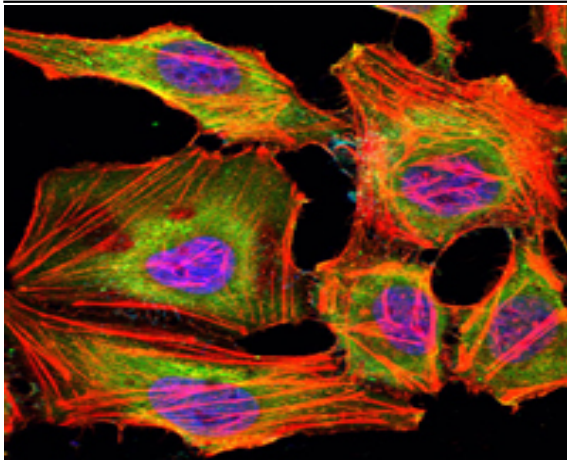
Cytoplasm . Nucleus . Nuclear in round spermatids. When spermatids start to elongate, localizes to the cytoplasm where it forms distinct foci which disappear in mature spermatozoa (By similarity) .

**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.