Best Tools for immunology Research

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,

Tag :

orthogonal

Sort :

8795

No4 :

1

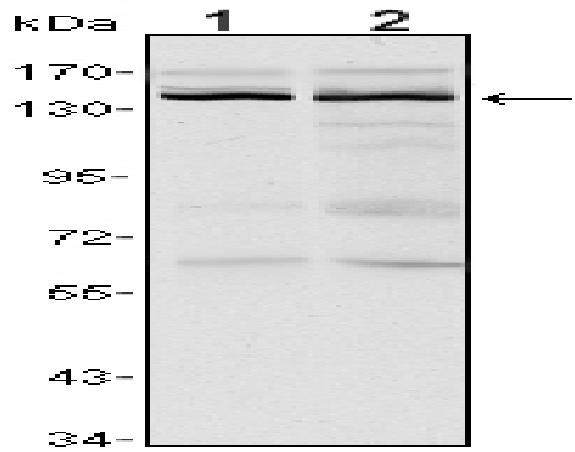
Host :

Mouse

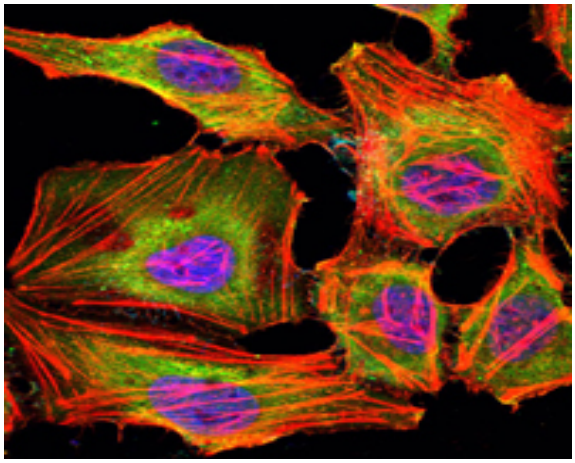
Modifications :

Unmodified

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.