JMJD1A Mouse mAb

CatalogNo: YM0388 **Orthogonal Validated**

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,IF,ELISA

MW
- 147kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000
IF 1:200-1:1000
ELISA 1:10000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant fragment of human JMJD1A expressed in E. Coli.
Specificity	JMJD1A Monoclonal Antibody detects endogenous levels of JMJD1A protein.

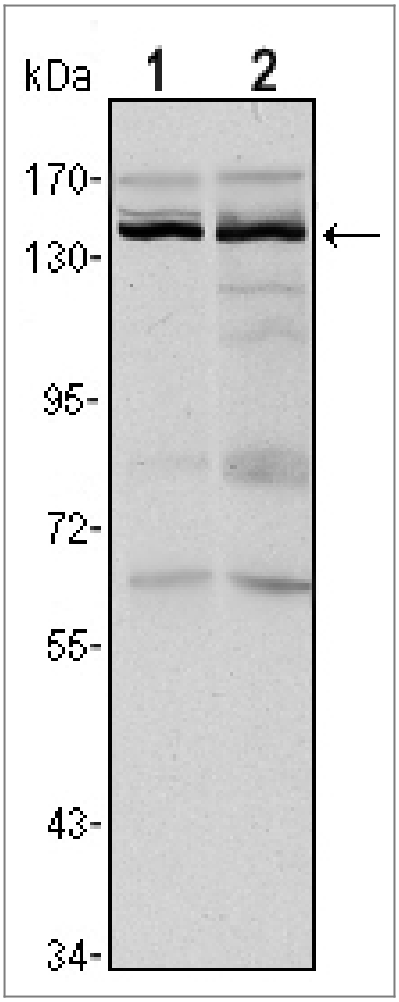
Target Information

Gene name	KDM3A
Protein Name	Lysine-specific demethylase 3A

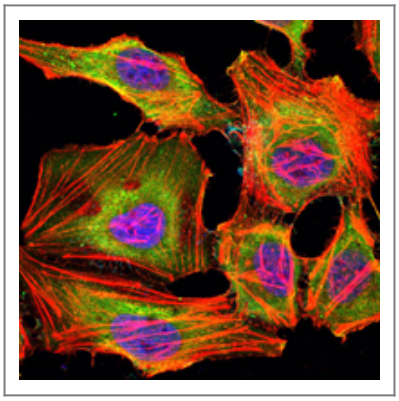
Organism	Gene ID	UniProt ID
Human	55818;	Q9Y4C1;
Mouse		Q6PCM1;

Cellular Localization	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 which are required for packaging and condensation of sperm chromatin. Involved in obesity resistance through regulation of metabolic genes such as PPARA and UCP1.,similarity:Belongs to the JHDM2 histone demethylase family.,similarity:Contains 1 JmjC domain.,subcellular location:Nuclear in round spermatids. When spermatids start to elongate, localizes to the cytoplasm where it forms distinct foci which disappear in mature spermatozoa.,

Validation Data



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.

Contact information

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Please scan the QR code to access additional product information:
JMJD1A Mouse mAb