

## KDM1/LSD1 mouse mAb

<b>Catalog No :</b>	YM1203
<b>Reactivity :</b>	Human;Monkey
<b>Applications :</b>	WB;ICC;IP
<b>Target :</b>	KDM1/LSD1
<b>Fields :</b>	>>Thermogenesis
<b>Gene Name :</b>	kdm1a
<b>Human Gene Id :</b>	23028
<b>Human Swiss Prot No :</b>	O60341
<b>Mouse Swiss Prot No :</b>	Q6ZQ88
<b>Immunogen :</b>	Purified recombinant human KDM1/LSD1 protein fragments expressed in E.coli.
<b>Specificity :</b>	This antibody detects endogenous levels of KDM1/LSD1 and does not cross-react with related proteins.
<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 1:1000 icc 1:100
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	110kD

## Background :

This gene encodes a nuclear protein containing a SWIRM domain, a FAD-binding motif, and an amine oxidase domain. This protein is a component of several histone deacetylase complexes, though it silences genes by functioning as a histone demethylase. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009],

## Function :

cofactor:FAD.,domain:The SWIRM domain may act as an anchor site for a histone tail.,function:Histone demethylase that demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Demethylates both mono- and di-methylated 'Lys-4' of histone H3. May play a role in the repression of neuronal genes. Alone, it is unable to demethylate H3 'Lys-4' on nucleosomes and requires the presence of RCOR1/CoREST to achieve such activity. May also demethylate 'Lys-9' of histone H3, a specific tag for epigenetic transcriptional repression, thereby leading to derepression of androgen receptor target genes. Demethylates di-methylated 'Lys-370' of p53/TP53 which prevents interaction of p53/TP53 with TP53BP1 and represses p53/TP53-mediate

## Subcellular Location :

Nucleus .

## Expression :

Ubiquitously expressed.

## Tag :

ip

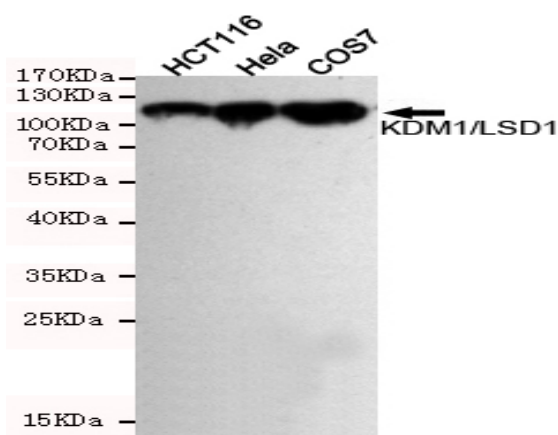
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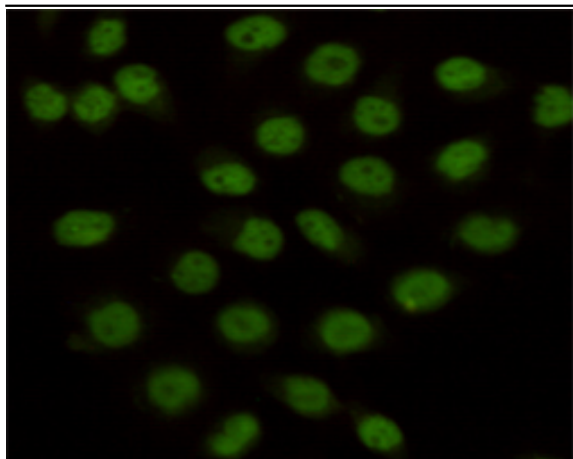
## No4 :

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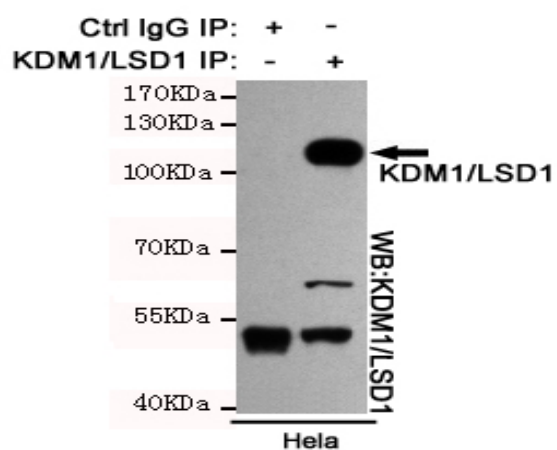
## Products Images



Western blot detection of KDM1/LSD1 in HeLa, HCT116 and COS7 cell lysates using KDM1/LSD1 mouse mAb (1:1000 diluted). Predicted band size: 110KDa. Observed band size: 110KDa.



Immunocytochemistry staining of HeLa cells fixed with 4% Paraformaldehyde and using anti-KDM1/LSD1 mouse mAb (dilution 1:100).



Immunoprecipitation analysis of Hela cell lysates using KDM1/LSD1 mouse mAb.