



# KDM1/LSD1 mouse mAb

<b>Catalog No</b>	BYab-01061
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Monkey
<b>Applications</b>	WB;ICC;IP
<b>Gene Name</b>	kdm1a
<b>Protein Name</b>	
<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>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	wb 1:1000 icc 1:100
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Amine oxidase (flavin containing) domain 2;AOF2;BHC110;BRAF35 HDAC complex protein BHC110;BRAF35-HDAC complex protein BHC110;FAD binding protein BRAF35 HDAC complex, 110 kDa subunit;Flavin-containing amine oxidase domain-containing protein 2;KDM 1;KDM1;Kdm1a;KDM1A_HUMAN;LSD 1;LSD1;Lysine (K) specific demethylase 1;Lysine (K) specific demethylase 1A;Lysine specific histone demethylase 1;Lysine specific histone demethylase 1A;Lysine-specific histone demethylase 1A.
<b>Observed Band</b>	110kD
<b>Cell Pathway</b>	Nucleus .
<b>Tissue Specificity</b>	Ubiquitously expressed.
<b>Function</b>	cofactor:FAD.,domain:The SWIRN 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

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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

**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],

**matters needing attention**

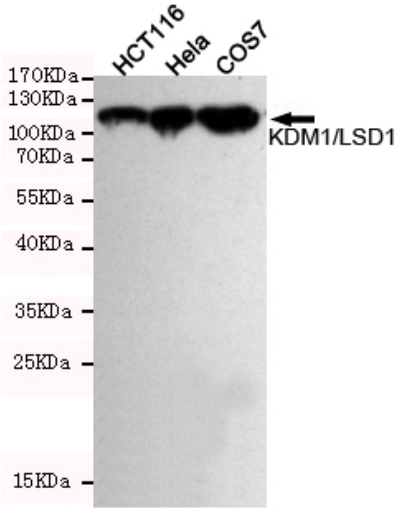
Avoid repeated freezing and thawing!

**Usage suggestions**

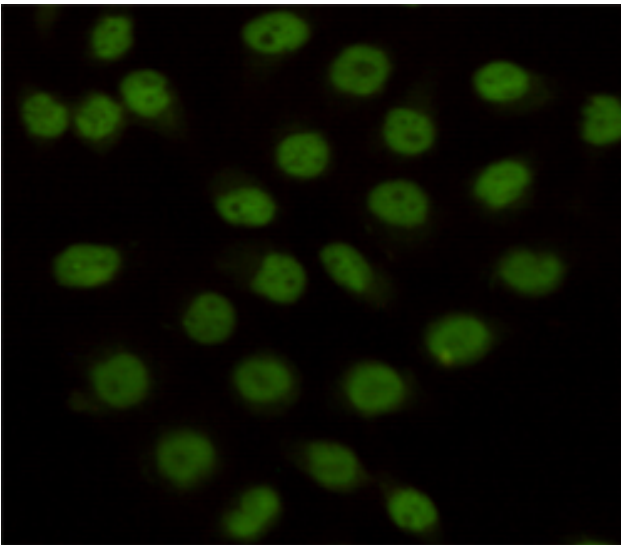
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



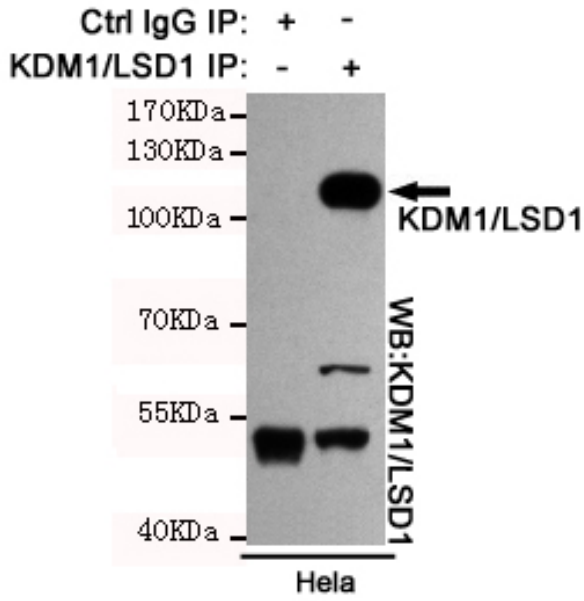
## Products Images



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.