

## LSD1 Monoclonal Antibody

<b>Catalog No :</b>	YM1059
<b>Reactivity :</b>	Human;Mouse;Bovine;Dog;Pig
<b>Applications :</b>	WB;IHC;IF
<b>Target :</b>	LSD1
<b>Fields :</b>	>>Thermogenesis
<b>Gene Name :</b>	KDM1A
<b>Protein Name :</b>	Lysine-specific histone demethylase 1A
<b>Human Gene Id :</b>	23028
<b>Human Swiss Prot No :</b>	O60341
<b>Mouse Gene Id :</b>	99982
<b>Mouse Swiss Prot No :</b>	Q6ZQ88
<b>Immunogen :</b>	Purified recombinant human LSD1 (N-terminus) protein fragments expressed in E.coli.
<b>Specificity :</b>	LSD1 Monoclonal Antibody detects endogenous levels of LSD1 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 1:1000 - 1:2000. IHC 1:500 - 1:1000. IF 1:100 - 1:500. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Concentration :</b>	1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 93kD

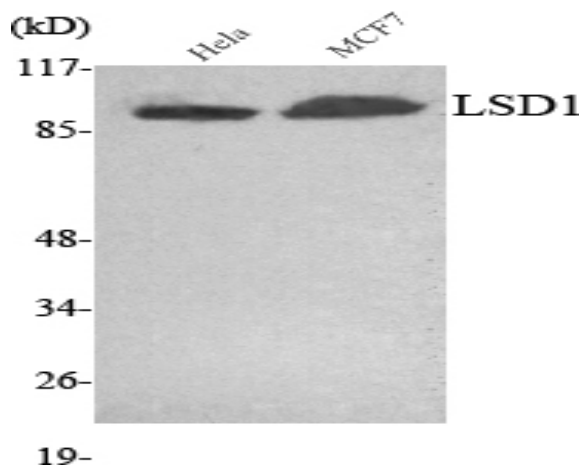
**Background :** This gene encodes a nuclear protein containing a SWIRM domain, a FAD-binding motif, and an amine oxidase domain. This protein is a component of several histone deacetylase complexes, though it silences genes by functioning as a histone demethylase. Alternative splicing results in multiple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

**Function :** cofactor:FAD.,domain:The 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 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

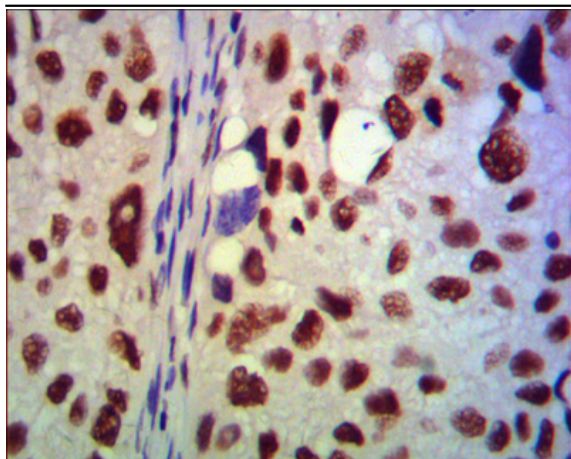
**Subcellular Location :** Nucleus .

**Expression :** Ubiquitously expressed.

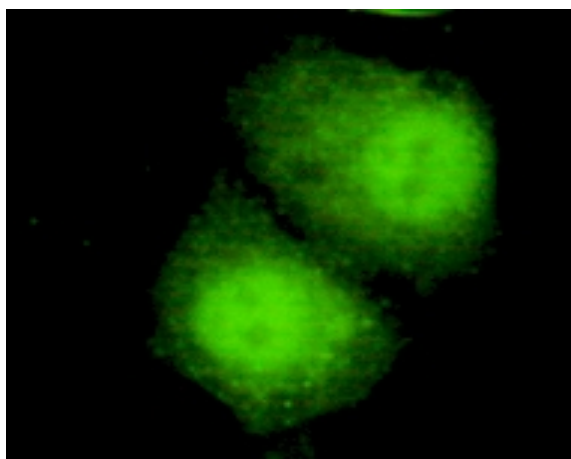
## Products Images



Western Blot analysis using LSD1 Monoclonal Antibody against HeLa, MCF7 cell lysate.



Immunohistochemistry analysis of paraffin-embedded human lung cancer using LSD1 Monoclonal Antibody.



Immunofluorescence analysis of HeLa cells using LSD1 Monoclonal Antibody.