

Datasheet for ABIN6241814

**anti-LSD1 antibody**

3 Images

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## Overview

Quantity:	100 µL
Target:	LSD1 (KDM1A)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC)

## Product Details

Immunogen:	Recombinant Protein
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## Target Details

Target:	LSD1 (KDM1A)
Alternative Name:	KDM1/LSD1 ( <a href="#">KDM1A Products</a> )
Background:	<p>Histone demethylase that demethylates both 'Lys-4' (H3K4me) and 'Lys-9' (H3K9me) of histone H3, thereby acting as a coactivator or a corepressor, depending on the context. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Acts as a corepressor by mediating demethylation of H3K4me, a specific tag for epigenetic transcriptional activation. Demethylates both mono- (H3K4me1) and di-methylated (H3K4me2) H3K4me. May play a role in the repression of neuronal genes. Alone, it is unable to demethylate H3K4me on nucleosomes and requires the presence of RCOR1/CoREST to achieve such activity. Also acts as a coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR target genes and mediating demethylation of</p>

## Target Details

H3K9me, a specific tag for epigenetic transcriptional repression. The presence of PRKCB in ANDR-containing complexes, which mediates phosphorylation of 'Thr- 6' of histone H3 (H3T6ph), a specific tag that prevents demethylation H3K4me, prevents H3K4me demethylase activity of KDM1A. Demethylates di-methylated 'Lys-370' of p53/TP53 which prevents interaction of p53/TP53 with TP53BP1 and represses p53/TP53-mediated transcriptional activation. Demethylates and stabilizes the DNA methylase DNMT1. Required for gastrulation during embryogenesis. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development. Effector of SNAI1-mediated transcription repression of E-cadherin/CDH1, CDN7 and KRT8. Required for the maintenance of the silenced state of the SNAI1 target genes E-cadherin/CDH1 and CDN7.

UniProt: [O60341](#)

Pathways: [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#), [Negative Regulation of intrinsic apoptotic Signaling](#), [Warburg Effect](#)

## Application Details

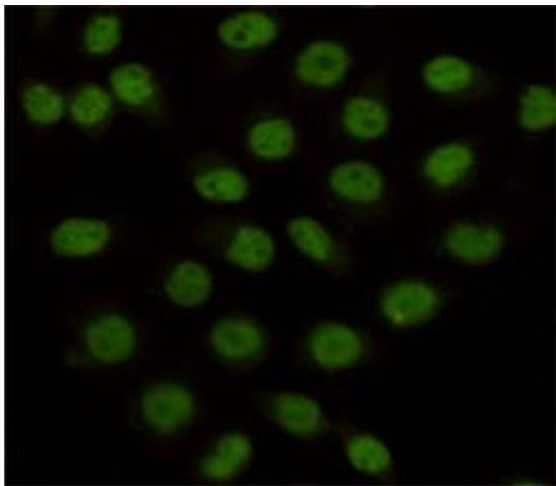
Application Notes: IP: 1:500. WB: 1:1000. ICC: 1:100

Restrictions: For Research Use only

## Handling

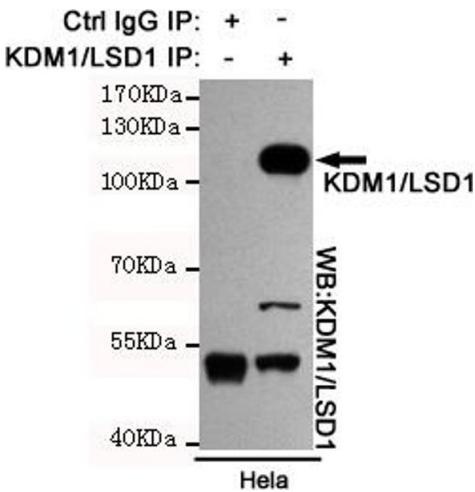
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Storage: 4 °C, -20 °C



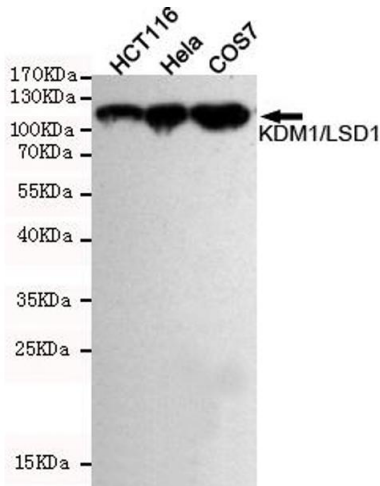
Immunocytochemistry

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



Immunoprecipitation

**Image 2.** Immunoprecipitation analysis of Hela cell lysates using KDM1/LSD1 mouse mAb.



Western Blotting

**Image 3.** Western blot detection of KDM1/LSD1 in Hela,HC and COS7 cell lysates using KDM1/LSD1 mouse mAb (1:1000 diluted).Predicted band size:110KDa.Observed band size:110KDa.