



[Go to Product page](#)

Datasheet for ABIN3031653
anti-LSD1 antibody (AA 819-852)

6 Images

Overview

Quantity:	0.4 mL
Target:	LSD1 (KDM1A)
Binding Specificity:	AA 819-852
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LSD1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 819-852 from the human protein was used as the immunogen for this LSD1 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse
Purification:	Purified

Target Details

Target:	LSD1 (KDM1A)
Alternative Name:	LSD1 (KDM1A Products)
Background:	Histone demethylase that demethylates both 'Lys-4' (H3K4me) and 'Lys-9' (H3K9me) of histone

Target Details

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 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]

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: Titration of the LSD1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100,Immunofluorescence: 1:10-1:50

Restrictions: For Research Use only

Handling

Format: Liquid

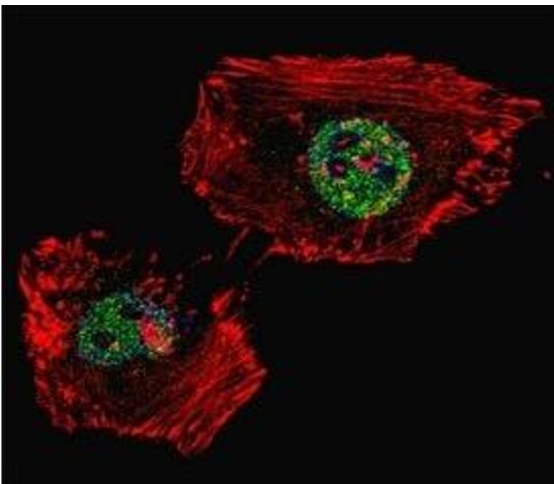
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Handling

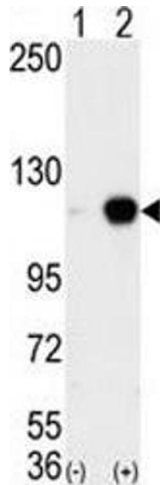
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the LSD1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

Images



Immunofluorescence

Image 1. Fluorescent confocal image of HeLa cell stained with LSD1 antibody. LSD1 immunoreactivity is localized to the nucleus.



Western Blotting

Image 2. Western blot analysis of LSD1 antibody and 293 cell lysate either nontransfected (Lane 1) or transiently transfected with the AOF2 gene (2).



Western Blotting

Image 3. Western blot testing of LSD1 antibody and nuclear extracts of control and PhIP-treated HMEC cells. Nuclear LSD1 protein levels increased in carcinogen-treated HMEC compared with control HMEC.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3031653.