

Datasheet for ABIN388021
anti-LSD1 antibody (N-Term)[Go to Product page](#)

4 Images

Overview

Quantity:	400 µL
Target:	LSD1 (KDM1A)
Binding Specificity:	AA 108-142, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LSD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This LSD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 108-142 amino acids from the N-terminal region of human LSD1.
Clone:	RB7579-RB7580
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	LSD1 (KDM1A)
Alternative Name:	LSD1 (KDM1A Products)

Target Details

Background:	LSD1 is a histone demethylase that specifically demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. LSD1 contains 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. It acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. LSD1 demethylates both mono- and trimethylated 'Lys-4' of histone H3. This protein 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. It may also demethylate 'Lys-9' of histone H3, a specific tag for epigenetic transcriptional repression, thereby leading to derepression of androgen receptor target genes.
Molecular Weight:	92903
Gene ID:	23028
NCBI Accession:	NP_001009999 , NP_055828
UniProt:	O60341
Pathways:	Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Negative Regulation of intrinsic apoptotic Signaling , Warburg Effect

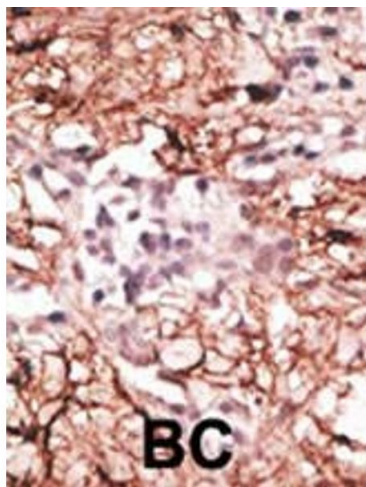
Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

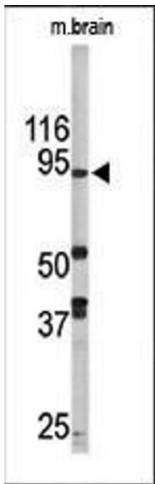
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months



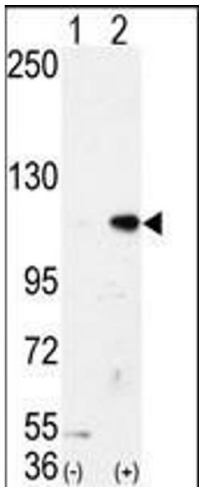
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of anti-LSD1 Pab (ABIN388021 and ABIN2845463) in mouse brain tissue lysate (35 µg/lane). LSD1 (arrow) was detected using the purified Pab.



Western Blotting

Image 3. Western blot analysis of AOF2 (arrow) using LSD1 Antibody (N-term) (ABIN388021 and ABIN2845463). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the AOF2 gene (Lane 2) (Origene Technologies).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN388021.