

Datasheet for ABIN372401
anti-LSD1 antibody (AA 100-150)



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1 Image

Overview

Quantity:	50 µg
Target:	LSD1 (KDM1A)
Binding Specificity:	AA 100-150
Reactivity:	Human, Mouse, Rat, Monkey, Dog, Macaque, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LSD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Synthetic peptide corresponding to a portion of amino acids of human AOF2.
Isotype:	IgG
Specificity:	This antibody recognizes Amine Oxidase (Flavin Containing) Domain 2 (AOF2/KDM1A).
Cross-Reactivity (Details):	Species reactivity (expected): Dog (Canine), Macaque, Monkey, Mouse, Rat and Zebrafish. Species reactivity (tested): Human.
Purification:	Immunoaffinity Chromatography.

Target Details

Target:	LSD1 (KDM1A)
Alternative Name:	AOF2 (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. Synonyms: BRAF35-HDAC complex protein BHC110, Flavin-containing amine oxidase domain-containing protein 2, KIAA0601, LSD1, Lysine-specific histone demethylase 1

Molecular Weight: 93 kDa.

Gene ID: 23028

NCBI Accession: [NP_001009999](#)

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: Immunohistochemistry on Paraffin Sections: 5 µg/mL. Western blot: 0.5-2 µg/mL.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Concentration: 0.5 mg/mL

Buffer: PBS containing 0.2 % Gelatin as stabilizer and 0.05 % Sodium Azide as preservative.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at-20 °C for longer.

Images

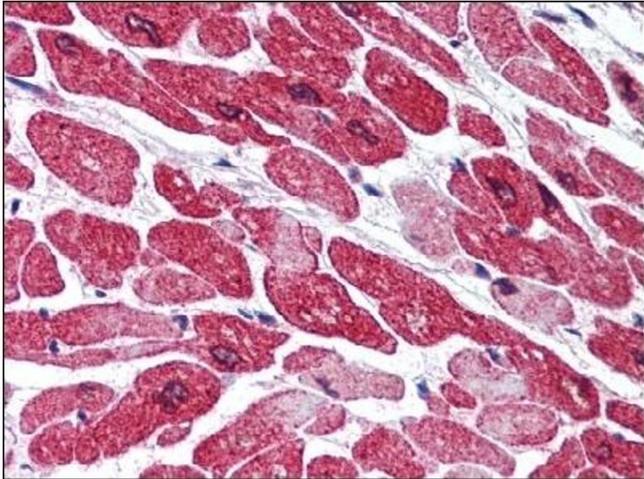


Image 1.