Datasheet for ABIN7158724

# anti-LSD1 antibody (AA 100-150)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | LSD1 (KDM1A) |
| Binding Specificity: | AA 100-150 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This LSD1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

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| Immunogen: | Recombinant Human Lysine-specific histone demethylase 1A protein (100-150AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse |
| Purification: | >95%, Protein G purified |

## Target Details

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|---|---|
| Target: | LSD1 (KDM1A) |
| Alternative Name: | KDM1A (KDM1A Products) |
| Background: | Background: 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 |

## Target Details

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| | 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.<br>Aliases: Amine oxidase (flavin containing) domain 2 antibody, Amine oxidase, flavin containing, 2 antibody, AOF2 antibody, BHC110 antibody, BRAF35 HDAC complex protein BHC110 antibody, BRAF35-HDAC complex protein BHC110 antibody, BRAF35/HDAC complex, 110-kD subunit antibody, CPRF antibody, EC1 antibody, FAD binding protein BRAF35 HDAC complex, 110 kDa subunit antibody, Flavin-containing amine oxidase domain-containing protein 2 antibody, KDM 1 antibody, KDM1 antibody, Kdm1a antibody, KDM1A_HUMAN antibody, KIAA0601 antibody, LSD 1 antibody, LSD1 antibody, Lysine (K) specific demethylase 1 antibody, Lysine (K) specific demethylase 1A antibody, Lysine demethylase 1A antibody, Lysine specific histone demethylase 1 antibody, Lysine specific histone demethylase 1A antibody, Lysine-specific demethylase 1 antibody, Lysine-specific demethylase 1A antibody, Lysine-specific histone demethylase 1A antibody |
| UniProt: | O60341 |
| Pathways: | Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Negative Regulation of intrinsic apoptotic Signaling, Warburg Effect |

## Application Details

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| Application Notes: | Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, IF:1:50-1:200, |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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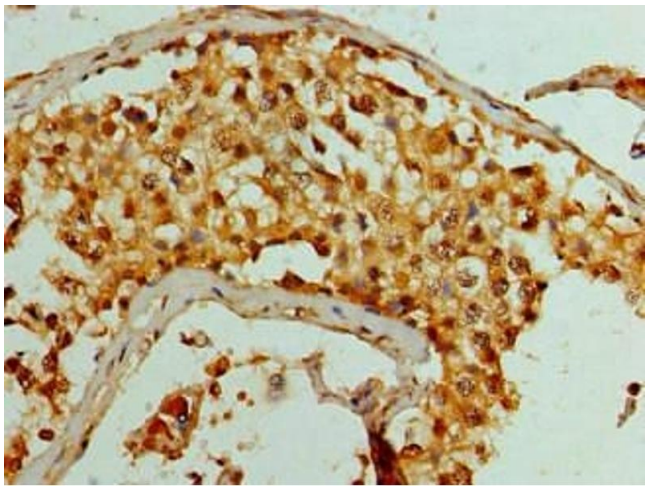
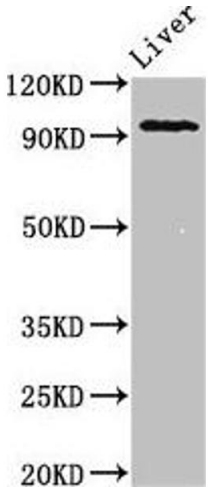
| Format: | Liquid |
| Buffer: | Preservative: 0.03 % Proclin 300<br>Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4 |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

## Images



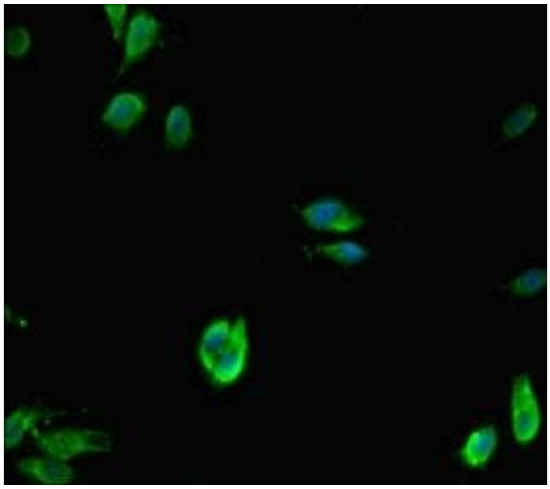
**Immunohistochemistry**

**Image 1.** Immunohistochemistry of paraffin-embedded human testis tissue using ABIN7158724 at dilution of 1:100




**Western Blotting**

**Image 2.** Western Blot Positive WB detected in: Mouse liver tissue All lanes: KDM1A antibody at 2 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 93, 96 kDa Observed band size: 93 kDa



**Immunofluorescence**

**Image 3.** Immunofluorescent analysis of Hela cells using ABIN7158724 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)