

Datasheet for ABIN7158725

anti-LSD1 antibody (AA 100-150) (Biotin)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	LSD1 (KDM1A)
Binding Specificity:	AA 100-150
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LSD1 antibody is conjugated to Biotin
Application:	ELISA

Product Details

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

Target Details

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

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.

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

Application Notes: Optimal working dilution should be determined by the investigator.

Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 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.