

Rabbit LSD1 Polyclonal Antibody | anti-KDM1A antibody

LSD1 Antibody

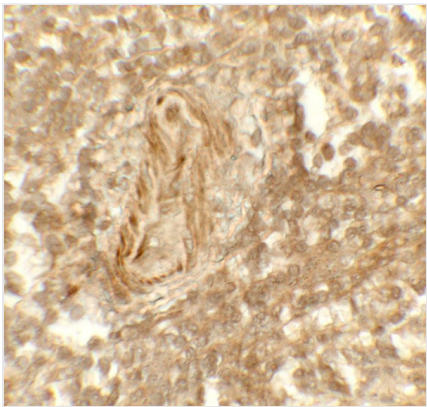
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40825	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

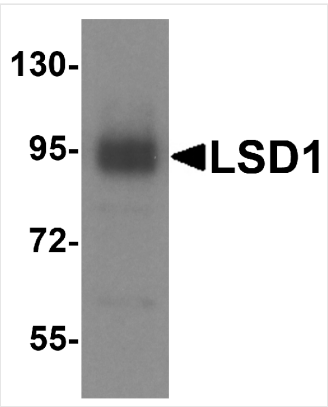
LSD1; Polyclonal Antibody; LSD1 Antibody; Lysine (K)-specific demethylase 1 A; Lysine-specific histone demethylase; amine oxidase flavin containing domain protein 2; AOF2; anti-KDM1A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	LSD1 antibody is human, mouse, and rat reactive. At least two isoforms of LSD1 are known to exist; this antibody detects both.
Purity/Purification	Affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	876
Applicable Applications for anti-KDM1A antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	LSD1 antibody was raised against a 19 amino acid peptide near the amino terminus of human LSD1.
Buffer	Supplied in PBS containing 0.02% sodium azide.
Positive Control 1	A549 Cell Lysate
Conjugate	Unconjugated
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year.



IHC (Immunohistochemistry)
Immunohistochemistry of LSD1 in human spleen tissue with LSD1 antibody at 5 μg/mL.



WB (Western Blot)
Western blot analysis of LSD1 in A549 cell lysate with LSD1 antibody at 1 μg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-KDM1A antibody	Histone modifications mediate changes in gene expression by altering chromatin structure or by serving as a platform to recruit other proteins. LSD1 is a recently discovered amine oxidase that catalyzes the lysine-specific demethylation of histone proteins via an FAD-dependent oxidative reaction (1). Methylation on histone H3-K9 is thought to play an important role in heterochromatin formation, while methylation on arginine and some lysine residues (such as H3-K4) is associated with active transcription (2). LSD1 associates with various proteins, including HDAC1/2, CoREST, and BHC80, that act to regulate LSD1 activity in vivo, and in a histone H3-K4-specific methylase complex that is involved in transcriptional regulation (3,4). Experiments have shown that CoREST, a SANT domain-containing corepressor (5) acts to enhance LSD1 activity, while BHC80, a PHD domain-containing protein (6), inhibits CoREST/LSD1 activity in vitro (3). LSD1-mediated histone demethylation thus may have significant effects on gene expression.
Product Categories/Family for anti-KDM1A antibody	Homeostasis
References	Shi Y, Lan F, Matson C, et al. Histone demethylation mediated by the nuclear amine oxidase homolog LSD1. Cell 2004; 119:941-53. Kouzarides T. Histone methylation in transcriptional control. Curr. Opin. Genet. Dev. 2002; 12:198-209. Shi YJ, Matson C, Lan F, et al. Regulation of LSD1 histone demethylase activity by its associated factors. Mol. Cell 2005; 19:857-64. Nakamura T, Mori T, Tada S, et al. ALL-1 is a histone methyltransferase that assembles a supercomplex of proteins involved in transcriptional regulation. Mol. Cell 2002; 10:1119-28.

NCBI AND UNIPROT INFORMATION

NCBI GI #	58761544
NCBI GeneID	23028
NCBI Accession #	NP_001009999
NCBI GenBank Nucleotide #	NM_001009999.2
UniProt Accession #	O60341; Q5TH94; Q5TH95; Q86VT7; Q8IXK4; Q8NDP6; Q8TAZ3; Q96AW4; A8MWP9
Molecular Weight	Predicted: 93, 96 kDa Observed: 93, 96 kDa
NCBI Official Full Name	lysine-specific histone demethylase 1A isoform a
NCBI Official Synonym Full Names	lysine demethylase 1A
NCBI Official Symbol	KDM1A
NCBI Official Synonym Symbols	AOF2; CPRF; KDM1; LSD1; BHC110
NCBI Protein Information	lysine-specific histone demethylase 1A

UniProt Protein Name	Lysine-specific histone demethylase 1A
UniProt Gene Name	KDM1A
UniProt Synonym Gene Names	AOF2; KDM1; KIAA0601; LSD1
UniProt Entry Name	KDM1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lsd1-antibody-immunohistochemistry-western-blot-elisa/40825>