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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-CN3

LSD1 Antibody

Overview

Description:	Anti-LSD1 (RABBIT) Antibody - 600-401-CN3
Item No.:	600-401-CN3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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. 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. 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. Experiments have shown that CoREST, a SANT domain-containing corepressor acts to enhance LSD1 activity, while BHC80, a PHD domain-containing protein, inhibits CoREST/LSD1 activity in vitro. LSD1-mediated histone demethylation thus may have significant effects on gene expression.
Synonyms:	LSD1 Antibody, AOF2, KDM1, LSD1, BHC110, AOF2, KIAA0601, Lysine-specific histone demethylase 1A, BRAF35-HDAC complex protein BHC110
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	KDM1A
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-LSD1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the N-terminus of human LSD1.
Purity/Specificity:	Anti-LSD1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with LSD1 from other sources has not been determined.
Relevant Links:	• UniProtKB - O60341 • GeneID - 23028 • NCBI - NP_001009999

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-LSD1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry, and Immunofluorescence. Expect a band at approximately 93 kDa in Western Blots using positive control P815 whole cell lysate or other specific cell lysates and tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:20,000
IF:	20 µg/mL
IHC:	2 µg/mL
WB:	1-2 µg/mL

Formulation

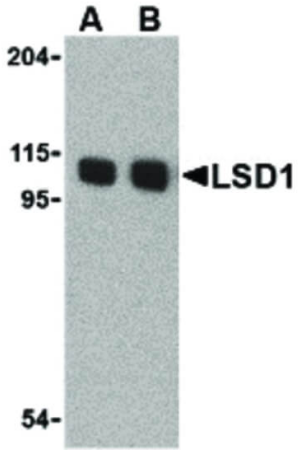
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of LSD1 antibody in P815 cell lysate. Lane A: LSD1 antibody at 1 µg/mL. Lane B: LSD1 antibody at 2 µg/mL. Load: 35 µg per lane. Primary antibody: LSD1 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 93 kDa, 102 kDa for LSD1. Other band(s): LSD1 splice variants and isoforms.

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