Datasheet for ABIN577699

anti-LSD1 antibody

1 Image

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Overview

Quantity:	100 µL
Target:	LSD1 (KDM1A)
Reactivity:	Human, Mammalian
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LSD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Brand:	AbX™
Immunogen:	Full length recombinant Lysine Specific Demethylase 1
Characteristics:	Reacts with mammalian Lysine Specific Demethylase 1
Purification:	Purified

Target Details

Target:	LSD1 (KDM1A)
Alternative Name:	Lysine Specific Demethylase 1 (LSD1) (KDM1A Products)
Background:	There are two known classes of histone demethylases (HDM), differing in their reaction chemistry, coenzyme use and reaction products. Flavin-dependent HDMs act only on mono- and dimethylated lysines and produce hydrogen peroxide, whereas the Jumonji-containing HDMs are iron-dependent enzymes that can act on mono-, di- and trimethylated lysine side

Target Details

	chains, and also on methylated Arginine residues. Both classes also produce formaldehyde as a product of the demethylation reaction. LSD1 (Lysine-specific demethylase 1) is a flavin-dependent amine oxidase and was identified as a subunit of different complexes and has been shown to be involved in transcriptional repression of genes through the demethylation of monomethyl Lys4 and dimethyl Lys4 Histone H3. LSD1 is also involved in transcriptional activation through the demethylation of monomethyl Lys9 and dimethyl Lys9 Histone H3. It is also able to demethylate both mono- and dimethyl Lys370 in the regulatory domain of the tumor suppressor p53.
Pathways:	Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Negative Regulation of intrinsic apoptotic Signaling, Warburg Effect

Application Details

Application Notes:	Western blotting and Immunoprecipitation Western blotting, 1:50-1:200 AbX™ Anti-LSD1 Rabbit pAb Detection of LSD1 in nuclear extract of 20 µg of HeLa cells probed with A003-100UL at a 1:200 dilution. MW of LSD1 is 110 kDa.
Comment:	Reacts with mammalian Lysine Specific Demethylase 1 Supplied as a PBS solution Applications include Western blotting and Immunoprecipitation
Restrictions:	For Research Use only

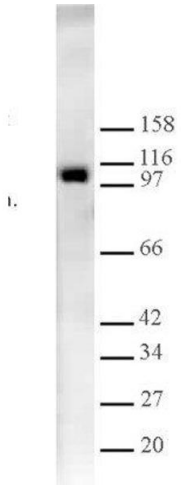
Handling

Format:	Liquid
Buffer:	Phosphate Buffered Saline at pH 7.2 containing 0.1 % Tween 20 and 0.09 % Kathon preservative
Preservative:	Sodium azide
Precaution of Use:	WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.
Storage:	4 °C

Handling

Storage Comment:	Short Term: 4°C. Extended: Aliquot and freeze at -20°C

Images



Western Blotting

Image 1.