

## Datasheet for ABIN6952403 **anti-LSD1 antibody**

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### Overview

|              |                                                                                                                             |
|--------------|-----------------------------------------------------------------------------------------------------------------------------|
| Quantity:    | 50 µg                                                                                                                       |
| Target:      | LSD1 (KDM1A)                                                                                                                |
| Reactivity:  | Human                                                                                                                       |
| Host:        | Rabbit                                                                                                                      |
| Clonality:   | Polyclonal                                                                                                                  |
| Conjugate:   | This LSD1 antibody is un-conjugated                                                                                         |
| Application: | Western Blotting (WB), ELISA, Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), ChIP DNA-Sequencing (ChIP-seq) |

### Product Details

|               |                                                                                                                                                                       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:    | synthetic peptide                                                                                                                                                     |
| Specificity:  | Polyclonal antibody raised in rabbit against human LSD1 (Lysine-specific demethylase 1), using a KLH-conjugated synthetic peptide from the inner part of the protein. |
| Purification: | Peptide affinity purified                                                                                                                                             |

### Target Details

|                   |                                                                                                                                                                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | LSD1 (KDM1A)                                                                                                                                                                                                                                                                         |
| Alternative Name: | LSD1 ( <a href="#">KDM1A Products</a> )                                                                                                                                                                                                                                              |
| Background:       | LSD1 (lysine specific demethylase 1, UniProt/Swiss-Prot entry O60341) is a component of the histone demethylase complex that uses FAD as a prosthetic group. LSD1 may have a dual effect on gene transcription. As it demethylates the mono- and dimethylated 'Lys-4' of histone H3, |

## Target Details

which are associated with transcriptional activation, LSD1 can act as a repressor of gene expression. However, LSD1 is also capable of demethylating 'Lys-9' of histone H3, a specific tag for epigenetic transcriptional repression, thereby leading to activation of androgen receptor target genes. LSD1 therefore mediates different processes such as embryonic development, cell differentiation and proliferation, stem and cancer cell biology.

|           |                                                                                                                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt:  | <a href="#">O60341</a>                                                                                                                                                                                                       |
| Pathways: | <a href="#">Regulation of Hormone Metabolic Process</a> , <a href="#">Regulation of Hormone Biosynthetic Process</a> , <a href="#">Negative Regulation of intrinsic apoptotic Signaling</a> , <a href="#">Warburg Effect</a> |

## Application Details

|                    |                                                                      |
|--------------------|----------------------------------------------------------------------|
| Application Notes: | ChIP 1 µg:ChIP<br>ELISA 1:1,000 - 1:10,000<br>WB 1:4,000<br>IF 1:200 |
| Restrictions:      | For Research Use only                                                |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Concentration:     | 2.2 µg/µL                                                                                                              |
| Buffer:            | PBS, 0.05 % azide, 0.05 % ProClin300                                                                                   |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                                 |