

# KDM1 Monoclonal antibody

Catalog Number: 65020-1-Ig

## Basic Information

**Catalog Number:**

65020-1-Ig

**Size:**

670 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**GenBank Accession Number:**

BC016639

**GeneID (NCBI):**

23028

**UNIPROT ID:**

O60341

**Full Name:**

lysine (K)-specific demethylase 1

**Calculated MW:**

93 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human, mouse

**Positive Controls:**

WB : HeLa cells,

## Background Information

Lysine specific demethylase 1 (LSD1/BHC110/KIAA0601/p110b/AOF2/KDM1) is an amine oxidase that catalyzes histone demethylation via a flavin adenine dinucleotide (FAD)-dependent oxidative reaction (PMID:19703393). This protein belongs to the flavin monoamine oxidase family. Its structure and function is conserved from yeast to human and it is typically associated to CoREST, a corepressor protein, and histone deacetylases HDAC1 and HDAC2. Human LSD1 consists of 852 amino acids and comprises an N-terminal SWIRM domain, involved in protein interactions, and a C-terminal amine oxidase domain, which contains an insertion that forms the CoREST interacting site (the so-called tower domain) (PMID:20164337). It has 2 isoforms produced by alternative splicing.

## Storage

**Storage:**

Store at 2-8°C.

**Storage Buffer:**

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

