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## KDM1B Recombinant Monoclonal Antibody

Product Code	CSB-RA958367A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q8NB78
Immunogen	A synthesized peptide derived from human KDM1B
Species Reactivity	Human
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:2000
Relevance	Histone demethylase that demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. Required for de novo DNA methylation of a subset of imprinted genes during oogenesis. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Demethylates both mono- and di-methylated 'Lys-4' of histone H3. Has no effect on tri-methylated 'Lys-4', mono-, di- or tri- methylated 'Lys-9', mono-, di- or tri-methylated 'Lys-27', mono-, di- or tri- methylated 'Lys-36' of histone H3, or on mono-, di- or tri-methylated 'Lys-20' of histone H4. {ECO:0000269 PubMed:23260659, ECO:0000269 PubMed:23357850}.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Gene Names	KDM1B
Clone No.	15F3

Image

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## **CUSABIO TECHNOLOGY LLC**

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Western Blot Positive WB detected in: A549 whole cell lysate, Hela whole cell lysate All lanes: KDM1B antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 93, 66, 20 kDa Observed band size: 90-95, 17-28 kDa

## Description

The creation of the KDM1B recombinant monoclonal antibody involves a complex process with several steps. To begin with, the KDM1B monoclonal antibody is harvested, and its gene sequence is determined. Following that, a vector containing the KDM1B monoclonal antibody gene is constructed and transfected into a host cell line for culture. A synthesized peptide, which is derived from human KDM1B, is utilized as an immunogen during KDM1B monoclonal antibody synthesis. The KDM1B recombinant monoclonal antibody is purified by affinity chromatography and subjected to analysis for specificity using ELISA and WB applications. It only detects human KDM1B protein.

KDM1B, also known as LSD1, is a lysine-specific demethylase that catalyzes the removal of methyl groups from histone H3 lysine 4 (H3K4) and lysine 9 (H3K9), leading to transcriptional repression. KDM1B plays a role in the regulation of gene expression, embryonic development, and differentiation. It has been implicated in the progression of various diseases, including cancer and neurodegenerative disorders.