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KD-Validated Anti-Lysine demethylase 1B Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1557

Product Information

Application	WB, FC, ICC
Primary Accession	Q8NB78
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB6265
Calculated MW	92098
Gene Name	KDM1B
Aliases	KDM1B; Lysine Demethylase 1B; LSD2; AOF1; Flavin-Containing Amine Oxidase Domain-Containing Protein 1; Lysine-Specific Histone Demethylase 1B; Lysine-Specific Histone Demethylase; Lysine (K)-Specific Demethylase 1B; DJ298J15.2; BA204B7.3; FLJ34109; FLJ33898; FLJ43328; C6orf193; Amine Oxidase (Flavin Containing) Domain 1; Chromosome 6 Open Reading Frame 193; Amine Oxidase, Flavin Containing 1; EC 1.14.99.66; C6ORF193
Immunogen	A synthesized peptide derived from human LSD2 / AOF1

Additional Information

Gene ID	221656
Other Names	Lysine-specific histone demethylase 2, 1.14.99.66, Flavin-containing amine oxidase domain-containing protein 1, Lysine-specific histone demethylase 1B, KDM1B (HGNC:21577)

Protein Information

Name	KDM1B (HGNC:21577)
Function	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. Alone, it is unable to demethylate H3K4me on nucleosomes and requires the presence of GLYR1 to achieve such activity, they form a multifunctional enzyme complex that modifies transcribed chromatin and facilitates Pol II transcription through

	nucleosomes (PubMed:30970244).
Cellular Location	Nucleus. Chromosome. Note=Found in actively RNAPolII- transcribed gene bodies.

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