

Active Recombinant Human KDM5B, FLAG-tagged

Cat. No. KDM5B-44H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KDM5B (accession number NP_006609) was expressed in Sf9, with an N-terminal FLAG tag.
Species	Human
Source	Sf9 Cells
Description	Lysine (K)-specific demethylase 5B (KDM5B), also known as Jumonji, AT rich interactive domain 1B (JARID1B), is a histone demethylase that specifically demethylates lysine 4 of histone H3 (H3K4), thereby playing a central role in defining the histone code. KDM5B demethylates trimethylated, dimethylated and monomethylated H3K4. It does not demethylate histone H3K9 or H3K27. KDM5B functions as a transcriptional corepressor for FOXG1B and PAX9. KDM5B induces the proliferation of breast cancer cells by repressing tumor suppressor genes such as BRCA1 and HOXA5. In contrast, it may act as a tumor suppressor for melanoma.
Form	25 mM HEPES pH 7.5, 150 mM NaCl and 5% glycerol.
Bio-activity	H3K4me3 demethylase.
Molecular Mass	179.9 kDa
Applications	Enzyme kinetics, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -

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80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Concentration 0.3 mg/ml

GENE INFORMATION

Gene Name KDM5B lysine (K)-specific demethylase 5B [Homo sapiens]

Official Symbol KDM5B

Synonyms KDM5B; lysine (K)-specific demethylase 5B; JARID1B, jumonji, AT rich interactive domain 1B , Jumonji, AT rich interactive domain 1B (RBP2 like); lysine-specific demethylase 5B; cancer/testis antigen 31; CT31; PLU 1; RBBP2H1A; RBP2-H1; histone demethylase JARID1B; putative DNA/chromatin binding motif; jumonji, AT rich interactive domain 1B; jumonji/ARID domain-containing protein 1B; retinoblastoma-binding protein 2 homolog 1; retinoblastoma-binding protein 2, homolog 1A; PLU1; PUT1; PLU-1; JARID1B; FLJ10538; FLJ12459; FLJ12491; FLJ16281; FLJ23670;

Gene ID 10765

mRNA Refseq NM_006618

Protein Refseq NP_006609

MIM 605393

UniProt ID Q9UGL1

Chromosome 1q32.1

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Location**Function**

DNA binding; histone demethylase activity (H3-dimethyl-K4 specific); histone demethylase activity (H3-trimethyl-K4 specific); metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; protein binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity; zinc ion binding;

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