Active Recombinant Human KDM2B, FLAG-tagged

Cat. No. KDM2B-40H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KDM2B was expressed in Sf9 cells and contains an N-terminal FLAG tag.
Species	Human
Source	Sf9 Cells
Description	KDM2B (lysine (K)-specific demethylase 2B), also known as FBXL10 (F-box and leucine-rich repeat protein 10) is a histone demethylase that preferentially demethylates trimethylated lysine 4 (K4me3) and dimethylated lysine 36 (K36me2) of histone H3. KDM2B displays weak or no activity for mono- and trimethylated H3K36. KDM2B preferentially binds the transcribed region of ribosomal RNA and represses the transcription of ribosomal RNA genes which results in inhibition of cell growth and proliferation. KDM2B may also serve as a substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex.
Form	25 mM HEPES pH 7.5, 150 mM NaCl and 5% glycerol.
Bio-activity	H3K36me2 demethylase.
Molecular Mass	155.9 kDa
Applications	Binding assays, 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	0.8 mg/ml

GENE INFORMATION

Gene Name	KDM2B lysine (K)-specific demethylase 2B [Homo sapiens]
Official Symbol	KDM2B
Synonyms	KDM2B; lysine (K)-specific demethylase 2B; F box and leucine rich repeat protein 10 , FBXL10; lysine-specific demethylase 2B; CXXC2; Fbl10; JHDM1B; jumonji C domain containing histone demethylase 1B; PCCX2; F-box protein FBL10; F-box/LRR-repeat protein 10; CXXC-type zinc finger protein 2; protein containing CXXC domain 2; protein-containing CXXC domain 2; [Histone-H3]-lysine-36 demethylase 1B; F-box and leucine-rich repeat protein 10; jumonji C domain-containing histone demethylase 1B; jmjC domain-containing histone demethylation protein 1B; JEMMA (Jumonji domain, EMSY-interactor, methyltransferase motif) protein; jumonji domain-containing EMSY-interactor methyltransferase motif protein; FBXL10;
Gene ID	84678
mRNA Refseq	NM_001005366
Protein Refseq	NP_001005366
MIM	609078
UniProt ID	Q8NHM5

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Chromosome Location	12q24.31
Function	DNA binding; DNA binding; histone demethylase activity; histone demethylase activity (H3-K36 specific); metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; protein binding; rRNA binding; zinc ion binding; zinc ion binding;

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