

Recombinant Human KDM2A protein, FLAG-tagged

Cat. No. KDM2A-46H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KDM2A(a.a: 2-700) fused with FLAG tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	2-700 a.a.
Description	Lysine (K)-specific demethylase 2A (KDM2A), also known as FBXL11, JHDM1A, CXXC8, nucleates at CpG islands and specifically demethylates "Lys-36" of histone H3, thereby playing a central role in histone code. Preferentially demethylates dimethylated H3 "Lys-36" residue while it has weak or no activity for mono- and tri-methylated H3 "Lys-36". May also recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation. Required to maintain the heterochromatic state. Associates with centromeres and represses transcription of small non-coding RNAs that are encoded by the clusters of satellite repeats at the centromere. Required to sustain centromeric integrity and genomic stability, particularly during mitosis.
Form	In 25 mM Tris pH 8.0, 300 mM NaCl, 5% Glycerol, 0.04% Triton X-100 and 0.2 mg/ml 3× Flag peptide.
Molecular Mass	128 kDa

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Applications	Recombinant KDM2A / FBXL11 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.25 µg/µl
GENE INFORMATION	
Gene Name	KDM2A lysine (K)-specific demethylase 2A [Homo sapiens]
Official Symbol	KDM2A
Synonyms	KDM2A; lysine (K)-specific demethylase 2A; F box and leucine rich repeat protein 11 , FBXL11; lysine-specific demethylase 2A; CXXC8; DKFZP434M1735; F box protein FBL11; FBL7; FBL11; FLJ00115; JHDM1A; jumonji C domain containing histone demethylase 1A; KIAA1004; LILINA; F-box/LRR-repeat protein 11; CXXC-type zinc finger protein 8; [Histone-H3]-lysine-36 demethylase 1A; F-box and leucine-rich repeat protein 11; jumonji C domain-containing histone demethylase 1A; jmjC domain-containing histone demethylation protein 1A; FBXL11; FLJ46431; DKFZp434M1735;
Gene ID	22992
mRNA Refseq	NM_012308
Protein Refseq	NP_036440
MIM	605657

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UniProt ID	Q9Y2K7
Chromosome Location	11q13.1
Function	DNA binding; 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; zinc ion binding;

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