

## Recombinant Human KDM2A protein, FLAG-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human KDM2A(a.a: 2-700) fused with FLAG tag at N-terminal was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	2-700 a.a.
<b>Description</b>	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.
<b>Form</b>	In 25 mM Tris pH 8.0, 300 mM NaCl, 5% Glycerol, 0.04% Triton X-100 and 0.2 mg/ml 3x Flag peptide.
<b>Molecular Mass</b>	128 kDa

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<b>Applications</b>	Recombinant KDM2A / FBXL11 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.
<b>Storage</b>	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.
<b>Concentration</b>	0.25 µg/µl
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	KDM2A lysine (K)-specific demethylase 2A [ Homo sapiens ]
<b>Official Symbol</b>	KDM2A
<b>Synonyms</b>	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;
<b>Gene ID</b>	22992
<b>mRNA Refseq</b>	NM_012308
<b>Protein Refseq</b>	NP_036440
<b>MIM</b>	605657

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<b>UniProt ID</b>	Q9Y2K7
<b>Chromosome Location</b>	11q13.1
<b>Function</b>	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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