Active Recombinant Human KDM2A protein, FLAG-Avi-tagged

Cat. No. KDM2A-45H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KDM2A(a.a: 2-700) fused with FLAG-Avi tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	2-700 a.a.
Description	This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class and, in addition to an F-box, contains at least six highly degenerated leucine-rich repeats. This family member plays a role in epigenetic silencing. It nucleates at CpG islands and specifically demethylates both mono- and di-methylated lysine-36 of histone H3. Alternative splicing results in multiple transcript variants.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol, 80 μg/ml FLAG peptide
Bio-activity	0.01

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	pmole/min/μg
Molecular Mass	82 kDa
Purity	>80%
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Notes	Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).
Storage	>6 months at –80 centigrade.

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

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Protein Refseq	NP_036440
MIM	605657
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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