

KDM2A/FBXL11 recombinant protein

Recombinant KDM2A/FBXL11 protein

CATALOG # AAA59713	HOST Baculovirus
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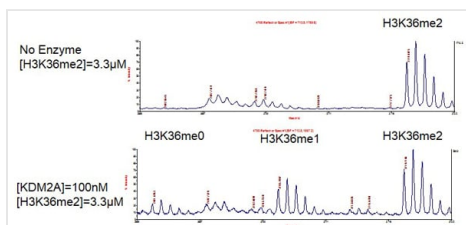
PRODUCT SYNONYMS

KDM2A/FBXL11; Recombinant KDM2A/FBXL11 protein; Lysine Demethylase 2A; Jumonji C Domain-Containing Histone Demethylase 1A; JHDM1A; KDM2A/FBXL11 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	The recombinant protein is >75% pure by SDS-PAGE.
Form/Format	Full length recombinant FBXL11/KDM2A protein was expressed in Sf9 cells and is supplied in 25mM HEPES pH7.5, 500mM NaCl, 10% glycerol, and 0.5mM TCEP.
Concentration	0.4 ug/mL (varies by lot)
Source	Human
Specific Activity	H3K36me2 demethylase.
Expressed In	Baculovirus
Catalytic Ability	13 turnovers/ enzyme molecule.
Histone Demethylase Assay Conditions	3.3 uM H3K36me2 peptide was incubated with 100 nM recombinant FBXL11 / KDM2A protein in reaction buffer containing 50 mM HEPES pH 7.5, 0.02% Triton X100, 100 uM 2OG, 100 uM Ascorbate, 50 uM (NH4)2Fe(SO4)2·6H2O, 1 mM TCEP for 2 hours at room temperature. MALDI-TOF was used for detection
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on Dry Ice Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



Application Data

3.3 uM H3K36me2 peptide was incubated with 100 nM FBXL11 / KDM2A in reaction buffer for 2 hours at room temperature. The reaction product was detected by MALDI-TOF. Single 3.3 uM H3K36me2 peptide was used as negative control.



SDS-PAGE

Recombinant KDM2A / FBXL11 protein gel. KDM2A / FBXL11 protein was run on a 8% SDS-PAGE gel and stained with Coomassie blue. MW: 128 kDa Purity: > 85%

ADDITIONAL INFORMATION

Related Product Information for KDM2A/FBXL11 recombinant protein	Short Description: Recombinant KDM2A/FBXL11 (accession number NP_036440.1) was expressed in Sf9 and contains an N-terminal DYKDDDDK-Tag with a molecular weight of 128 kDa. The recombinant protein is >75% pure by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: 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.
Product Categories/Family for KDM2A/FBXL11 recombinant protein	Recombinant Proteins; Histone Demethylase (HDM)

NCBI AND UNIPROT INFORMATION

NCBI GI #	16306580
NCBI GeneID	22992
NCBI Accession #	NP_036440.1
NCBI GenBank Nucleotide #	NM_012308.2
UniProt Accession #	Q9Y2K7; Q49A21; Q4G0M3; Q69YY8; Q9BVH5; Q9H7H5; Q9UK66; D4QA03; E9PIL6; I3VM55
Molecular Weight	128 kDa
NCBI Official Full Name	lysine-specific demethylase 2A isoform a
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 2A
NCBI Official Symbol	KDM2A
NCBI Official Synonym Symbols	FBL7; CXXC8; FBL11; FBXL11; JHDM1A; LILINA
NCBI Protein Information	lysine-specific demethylase 2A; 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 histo
UniProt Protein Name	Lysine-specific demethylase 2A
UniProt Gene Name	KDM2A
UniProt Synonym Gene Names	CXXC8; FBL7; FBXL11; JHDM1A; KIAA1004
UniProt Entry Name	KDM2A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/kdm2a-recombinant-protein-baculovirus/59713>