

Recombinant Human KDM2A protein ab151923

1 Image

Description

Product name	Recombinant Human KDM2A protein
Purity	> 90 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>Q9Y2K7</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MEPEEEERIRY SQRLRGTMRR RYEDDGISDD EIEGKRTFDL EEKLHTNKYN ANFVTFMEGK DFNVEYIQRG GLRDPLIFKN SDGLGIKMPD PDFTVNDVKM CVGSRRMVDV MDVNTQKGIE MTMAQWTRY ETPEEEEREKL YNVISLEFSH TRLENMVQRP STVDFIDWVD NMWPRHLKES QTESTNAILE MQYPKVQKYC LMSVRGCYTD FHVDFGGTSV WYHIHQGGKV FWLIPPTAHN LELYENWLLS GKQGDIFLGD RVSDCQRIEL KQGYTFVIPS GWIHAVYTPT DTLVFGGNFL HSFNIPMLK YNIEDRTRV PNKFRYPFY EMCWYVLERY VYCITNRSHL TKEFQKESLS MDLELNGLES GNGDEEAVDR EPRRLSSRRS VLTSPVANGV NLDYDGLGKT CRSLPSLKKT LAGDSSSDCS RGS HNGQVWD PQCAPRKDRQ VHLTHFELEG LRCLVDKLES LPLHKKCVPT GIEDEDALIA DVKILLEELA NSDPKLALTG VPIVQWPKRD KLKFPTRPKV RVPTIPITKP HTMKPAPRLT PVRPAAASPI VSGARRRRVR CRKCKACVQG ECGVCHYCRD MKKFGGPGRM KQSCVLRQCL APRLPHSVTC SLCGEVDQNE ETQDFEKKLM ECCICNEVH PGCLQMDGEG LLNEELPNCW ECPKCYQEDS SEKAQKRKME ESDEEAVQAK VLRPLRSCDE PLTPPPHSPT SMLQLIHPV SPRGMVTRSS PGAGPSDH
Predicted molecular weight	115 kDa including tags

## Specifications

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Our **Abpromise guarantee** covers the use of **ab151923** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as FBXL11

## Preparation and Storage

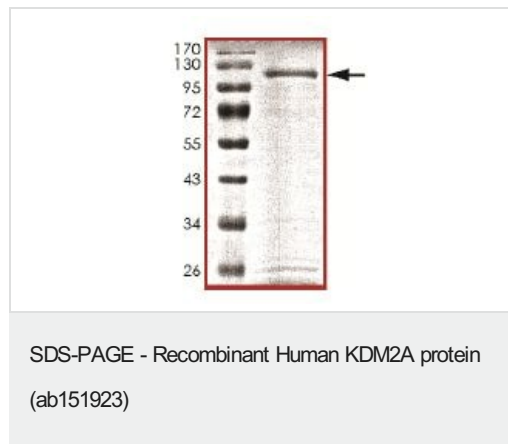
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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.004% EDTA, 25% Glycerol (glycerin, glycerine), 0.29% Sodium chloride
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## General Info

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<b>Function</b>	Histone demethylase that 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>Tissue specificity</b>	Widely expressed, with highest levels in brain, testis and ovary, followed by lung.
<b>Sequence similarities</b>	Belongs to the JHDM1 histone demethylase family. Contains 1 CXXC-type zinc finger. Contains 1 F-box domain. Contains 1 JmjC domain. Contains 6 LRR (leucine-rich) repeats. Contains 1 PHD-type zinc finger.
<b>Domain</b>	The JmjC domain mediates demethylation activity and is required for satellite silencing. The CXXC zinc finger preferentially recognizes nonmethylated CpG DNA, and binding is blocked when the CpG DNA is methylated.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Nucleus > nucleoplasm. Punctate expression throughout the nucleoplasm and enriched in the perinucleolar region. Specifically nucleates at CpG islands where it's presence results in chromatin depleted in H3K36me2.



SDS-PAGE analysis of ab151923.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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