Datasheet for ABIN7563486

KDM2A Protein (AA 1-1161) (His tag)

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Overview

Quantity:	1 mg
Target:	KDM2A
Protein Characteristics:	AA 1-1161
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM2A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Kdm2a Protein expressed in mammalian cells.
Sequence:	MEPEEERIRY SQRLRGTMRR RYEDDGISDD EIEGKRTFDL EEKLQTNKYN ANFVTFMEGK DFNVEYIQRG GLRDPLIFKN SDGLGIKMPD PDFTVNDVKM CVGSRRMVDV MDVNTQKGIE MTMAQWTRYY ETPEEEREKL YNVISLEFSH TRLENMVQWP STVDFIDWVD NMWPRHLKES QTESTNAILE MQYPKVQKYC LISVRGCYTD FHVDFGGTSV WYHIHQGGKV FWLIPPTAHN LELYENWLLS GKQGDIFLGD RVSDCQRIEL KQGYTFVIPS GWIHAVYTPT DTLVFGGNFL HSFNIPMQLK IYSIEDRTRV PNKFRYPFYY EMCWYVLERY VYCITNRSHL TKDFQKESLS MDMELNELES GNGDEEGVDR EARRMNNKRS VLTSPVANGV NLDYDGLGKA CRSLPSLKKT LSGDSSSDST RGSHNGQVWD PQCSPKKDRQ VHLTHFELEG LRCLVDKLES LPLHKKCVPT GIEDEDALIA DVKILLEELA SSDPKLALTG VPIVQWPKRD KLKFPTRPKV RVPTIPITKP HTMKPAPRLT PVRPAAASPI VSGARRRRVR CRKCKACVQG ECGVCHYCRD MKKFGGPGRM KQSCVLRQCL APRLPHSVTC SLCGEVDQNE ETQDFEKKLM ECCICNEIVH PGCLQMDGEG LLNEELPNCW ECPKCYQEDS SDKAQKRKIE ESDEEAVQAK VLRPLRSCEE PLTPPPHSPT

Product Details

	SMLQLIHDPV SPRGMVTRSS PGAGPSDHHS ASRDERFKRR QLLRLQATER TMVREKENNP SGKKELSEVE KAKIRGSYLT VTLQRPTKEL HGTSIVPKLQ AITASSANLR PNPRVLMQHC PARNPQHGDE EGLGGEEEEE EEEEEDDSAE EGGAARLNGR GSWAQDGDES WMQREVWMSV FRYLSRKELC ECMRVCKTWY KWCCDKRLWT KIDLSRCKAI VPQALSGIIK RQPVSLDLSW TNISKKQLTW LVNRLPGLKD LLLAGCSWSA VSALSTSSCP LLRTLDLRWA VGIKDPQIRD LLTPPTDKPG QDNRSKLRNM TDFRLAGLDI TDATLRLIIR HMPLLSRLDL SHCSHLTDQS SNLLTAVGSS TRYSLTELNM AGCNKLTDQT LFFLRRIANV TLIDLRGCKQ ITRKACEHFI SDLSINSLYC LSDEKLIQKI S **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	KDM2A
Alternative Name:	Kdm2a (KDM2A Products)
Background:	Lysine-specific demethylase 2A (EC 1.14.11.27) (F-box and leucine-rich repeat protein 11) (F-

Target Details

	box/LRR-repeat protein 11) (JmjC domain-containing histone demethylation protein 1A) ([Histone-H3]-lysine-36 demethylase 1A),FUNCTION: Histone demethylase that specifically demethylates 'Lys-36' of histone H3, thereby playing a central role in histone code (PubMed:32584788). 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 (By similarity). Regulates circadian gene expression by repressing the transcriptional activator activity of CLOCK-BMAL1 heterodimer and RORA in a catalytically-independent manner (By similarity). {ECO:0000250|UniProtKB:Q9Y2K7, ECO:0000269|PubMed:32584788}.
Molecular Weight:	132.7 kDa
UniProt:	P59997
Pathways:	Warburg Effect

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months