Datasheet for ABIN3134565

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

1 Image

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Overview

Quantity:	1 mg
Target:	KDM2A
Protein Characteristics:	AA 1-1161
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM2A protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

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

	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. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Mouse Kdm2a Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

Product Details

	2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	KDM2A
Alternative Name:	Kdm2a (KDM2A Products)
Background:	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 (By similarity). {ECO:0000250}.
Molecular Weight:	133.6 kDa Including tag.
UniProt:	P59997
Pathways:	Warburg Effect

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process