Datasheet for ABIN3135737

KDM2B Protein (AA 1-1309) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	KDM2B
Protein Characteristics:	AA 1-1309
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM2B protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MEAEKDSGRR LRAIDRQRYD ENEDLSDVEE IVSVRGFSLE EKLRSQLYQG DFVHAMEGKD FNYEYVQREA LRVPLVFRDK DGLGIKMPDP DFTVRDVKLL VGSRRLVDVM DVNTQKGTEM SMSQFVRYYE TPEAQRDKLY NVISLEFSHT KLEHLVKRPT VVDLVDWVDN MWPQHLKEKQ TEATNALAEM KYPKVKKYCL MSVKGCFTDF HIDFGGTSVW YHVFRGGKIF WLIPPTLHNL ALYEEWVLSG KQSDIFLGDR VERCQRIELK QGYTFFIPSG WIHAVYTPVD SLVFGGNILH SFNVPMQLRI YEIEDRTRVQ PKFRYPFYYE MCWYVLERYV YCVTQRSYLT QEYQRELMLI DAPRKTSVDG FSSDSWLDME EESCEQQPQE EEEEEEDKEE EGDGADKTPK PPTDDPTSPT STPPEDQDST GKKPKAPAIR FLKRTLSNES EESVKSTSMP TDDPKTPTGS PATEVSTKWT HLTEFELKGL KALVEKLESL PENKKCVPEG IEDPQALLEG VKNVLKEHVD DDPTLAITGV PVVSWPKKTA KNRVVGRPKG KLGPASAVKL AANRTTAGAR RRRTRCRKCE ACLRTECGEC HFCKDMKKFG GPGRMKQSCI MRQCIAPVLP HTAVCLVCGE AGKEDTVEEE EGKFNLMLME CSICNEIIHP GCLKIKESEG VVNDELPNCW ECPKCNHAGK TGKQKRGPGF KYASNLPGSL

	LKEQKMNRDN KEGQEPAKRR SECEEAPRRR SDEHPKKVPA DGILRRKSDD VHLRRKRKYE KPQELSGRKR ASSLQTSPGS SSHLSPRPPL GSSLSPWWRS SLTYFQQQLK PGKEDKLFRK KRRSWKNAED RLSLANKPLR RFKQEPEDDL PEAPPKTRES DQSRSSSPTA GPSTEGAEGP EEKKKVKMRR KRRLVNKELS KELSKELNHE IQKTESTLAH ESQQPIKSEP ESENDEPKRP LSHCERPHRF SKGLNGTPRE LRHSLGPGLR SPPRVMSRPP PSASPPKCIQ MERHVIRPPP ISPPPDSLPL DDGAAHVMHR EVWMAVFSYL SHRDLCVCMR VCRTWNRWCC DKRLWTRIDL NRCKSITPLM LSGIIRRQPV SLDLSWTNIS KKQLSWLINR LPGLRDLVLS GCSWIAVSAL CSSSCPLLRT LDVQWVEGLK DAQMRDLLSP PTDNRPGQMD NRSKLRNIVE LRLAGLDITD VSLRLIIRHM PLLSKLQLSY CNHINDQSIN LLTAVGTTTR DSLTEVNLSD CNKVTDLCLS FFKRCGNICH IDLRYCKQVT KEGCEQFIAE MSVSVQFGQV EEKLLQKLS **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 Kdm2b 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

Product Details

	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 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:	KDM2B
Alternative Name:	Kdm2b (KDM2B Products)
Background:	Histone demethylase that demethylates 'Lys-4' and 'Lys-36' of histone H3, thereby playing a central role in histone code. Preferentially demethylates trimethylated H3 'Lys-4' and dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'. Preferentially binds the transcribed region of ribosomal RNA and represses the transcription of ribosomal RNA genes which inhibits cell growth and proliferation. May also serve as a substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex (By similarity). {ECO:0000250}.
Molecular Weight:	150.7 kDa Including tag.
UniProt:	Q6P1G2
Pathways:	Tube Formation, 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

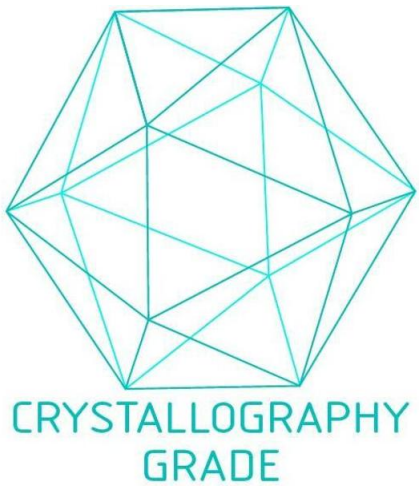

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process