antibodies

Datasheet for ABIN3093404 KDM5B Protein (AA 1-1544) (Strep Tag)





Overview

Quantity:	1 mg
Target:	KDM5B
Protein Characteristics:	AA 1-1544
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM5B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MEAATTLHPG PRPALPLGGP GPLGEFLPPP ECPVFEPSWE EFADPFAFIH KIRPIAEQTG
	ICKVRPPPDW QPPFACDVDK LHFTPRIQRL NELEAQTRVK LNFLDQIAKY WELQGSTLKI
	PHVERKILDL FQLNKLVAEE GGFAVVCKDR KWTKIATKMG FAPGKAVGSH IRGHYERILN
	PYNLFLSGDS LRCLQKPNLT TDTKDKEYKP HDIPQRQSVQ PSETCPPARR AKRMRAEAMN
	IKIEPEETTE ARTHNLRRRM GCPTPKCENE KEMKSSIKQE PIERKDYIVE NEKEKPKSRS
	KKATNAVDLY VCLLCGSGND EDRLLLCDGC DDSYHTFCLI PPLHDVPKGD WRCPKCLAQE
	CSKPQEAFGF EQAARDYTLR TFGEMADAFK SDYFNMPVHM VPTELVEKEF WRLVSTIEED
	VTVEYGADIA SKEFGSGFPV RDGKIKLSPE EEEYLDSGWN LNNMPVMEQS VLAHITADIC
	GMKLPWLYVG MCFSSFCWHI EDHWSYSINY LHWGEPKTWY GVPGYAAEQL ENVMKKLAPE
	LFVSQPDLLH QLVTIMNPNT LMTHEVPVYR TNQCAGEFVI TFPRAYHSGF NQGFNFAEAV
	NFCTVDWLPL GRQCVEHYRL LHRYCVFSHD EMICKMASKA DVLDVVVAST VQKDMAIMIE
	DEKALRETVR KLGVIDSERM DFELLPDDER QCVKCKTTCF MSAISCSCKP GLLVCLHHVK

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/5 | Product datasheet for ABIN3093404 | 04/17/2024 | Copyright antibodies-online. All rights reserved. ELCSCPPYKY KLRYRYTLDD LYPMMNALKL RAESYNEWAL NVNEALEAKI NKKKSLVSFK ALIEESEMKK FPDNDLLRHL RLVTQDAEKC ASVAQQLLNG KRQTRYRSGG GKSQNQLTVN ELRQFVTQLY ALPCVLSQTP LLKDLLNRVE DFQQHSQKLL SEETPSAAEL QDLLDVSFEF DVELPQLAEM RIRLEQARWL EEVQQACLDP SSLTLDDMRR LIDLGVGLAP YSAVEKAMAR LQELLTVSEH WDDKAKSLLK ARPRHSLNSL ATAVKEIEEI PAYLPNGAAL KDSVQRARDW LQDVEGLQAG GRVPVLDTLI ELVTRGRSIP VHLNSLPRLE TLVAEVQAWK ECAVNTFLTE NSPYSLLEVL CPRCDIGLLG LKRKQRKLKE PLPNGKKKST KLESLSDLER ALTESKETAS AMATLGEARL REMEALQSLR LANEGKLLSP LQDVDIKICL CQKAPAAPMI QCELCRDAFH TSCVAVPSIS QGLRIWLCPH CRRSEKPPLE KILPLLASLQ RIRVRLPEGD ALRYMIERTV NWQHRAQQLL SSGNLKFVQD RVGSGLLYSR WQASAGQVSD TNKVSQPPGT TSFSLPDDWD NRTSYLHSPF STGRSCIPLH GVSPEVNELL MEAQLLQVSL PEIQELYQTL LAKPSPAQQT DRSSPVRPSS EKNDCCRGKR DGINSLERKL KRRLEREGLS SERWERVKKM RTPKKKKIKL SHPKDMNNFK LERERSYELV RSAETHSLPS DTSYSEQEDS EDEDAICPAV SCLQPEGDEV DWVQCDGSCN QWFHQVCVGV SPEMAEKEDY ICVRCTVKDA PSRK

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.

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	• During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
	Concentration:
	 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.
	• We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
	 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	KDM5B	
Alternative Name:	KDM5B (KDM5B Products)	
Background:	Lysine-specific demethylase 5B (EC 1.14.11.67) (Cancer/testis antigen 31) (CT31) (Histone	
	demethylase JARID1B) (Jumonji/ARID domain-containing protein 1B) (PLU-1) (Retinoblastoma	
	binding protein 2 homolog 1) (RBP2-H1) ([histone H3]-trimethyl-L-lysine(4) demethylase	
	5B),FUNCTION: Histone demethylase that demethylates 'Lys-4' of histone H3, thereby playing a	
	central role in histone code (PubMed:24952722, PubMed:27214403, PubMed:28262558). Does	
	not demethylate histone H3 'Lys-9' or H3 'Lys-27'. Demethylates trimethylated, dimethylated	
	and monomethylated H3 'Lys-4'. Acts as a transcriptional corepressor for FOXG1B and PAX9.	

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	Favors the proliferation of breast cancer cells by repressing tumor suppressor genes such as BRCA1 and HOXA5 (PubMed:24952722). In contrast, may act as a tumor suppressor for melanoma. Represses the CLOCK-BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2 (By similarity). {ECO:0000250 UniProtKB:Q80Y84, ECO:0000269 PubMed:12657635, ECO:0000269 PubMed:16645588,
	ECO:0000269 PubMed:17320161, ECO:0000269 PubMed:17363312, ECO:0000269 PubMed:24952722, ECO:0000269 PubMed:26645689, ECO:0000269 PubMed:26741168, ECO:0000269 PubMed:27214403, ECO:0000269 PubMed:28262558}.
Molecular Weight:	175.7 kDa
UniProt:	Q9UGL1
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 guarantee though.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
	During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

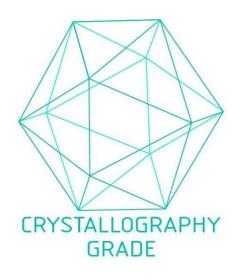


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process