

Datasheet for ABIN3093414 KAT2B Protein (AA 1-832) (Strep Tag)



Overview

Quantity:	250 µg
Target:	KAT2B
Protein Characteristics:	AA 1-832
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KAT2B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSEAGGAGPG GCGAGAGAGA GPGALPPQPA ALPPAPPQGS PCAAAAGGSG ACGPATAVAA
	AGTAEGPGGG GSARIAVKKA QLRSAPRAKK LEKLGVYSAC KAEESCKCNG WKNPNPSPTP
	PRADLQQIIV SLTESCRSCS HALAAHVSHL ENVSEEEMNR LLGIVLDVEY LFTCVHKEED
	ADTKQVYFYL FKLLRKSILQ RGKPVVEGSL EKKPPFEKPS IEQGVNNFVQ YKFSHLPAKE
	RQTIVELAKM FLNRINYWHL EAPSQRRLRS PNDDISGYKE NYTRWLCYCN VPQFCDSLPR
	YETTQVFGRT LLRSVFTVMR RQLLEQARQE KDKLPLEKRT LILTHFPKFL SMLEEEVYSQ
	NSPIWDQDFL SASSRTSQLG IQTVINPPPV AGTISYNSTS SSLEQPNAGS SSPACKASSG
	LEANPGEKRK MTDSHVLEEA KKPRVMGDIP MELINEVMST ITDPAAMLGP ETNFLSAHSA
	RDEAARLEER RGVIEFHVVG NSLNQKPNKK ILMWLVGLQN VFSHQLPRMP KEYITRLVFD
	PKHKTLALIK DGRVIGGICF RMFPSQGFTE IVFCAVTSNE QVKGYGTHLM NHLKEYHIKH
	DILNFLTYAD EYAIGYFKKQ GFSKEIKIPK TKYVGYIKDY EGATLMGCEL NPRIPYTEFS VIIKKQKEII

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 1/4 | Product datasheet for ABIN3093414 | 02/26/2025 | Copyright antibodies-online. All rights reserved. KKLIERKQAQ IRKVYPGLSC FKDGVRQIPI ESIPGIRETG WKPSGKEKSK EPRDPDQLYS TLKSILQQVK SHQSAWPFME PVKRTEAPGY YEVIRFPMDL KTMSERLKNR YYVSKKLFMA DLQRVFTNCK EYNPPESEYY KCANILEKFF FSKIKEAGLI DK

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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.
- 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

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Product Details	
	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	KAT2B
Alternative Name:	KAT2B (KAT2B Products)
Background:	Histone acetyltransferase KAT2B (EC 2.3.1.48) (Histone acetyltransferase PCAF) (Histone
	acetylase PCAF) (Lysine acetyltransferase 2B) (P300/CBP-associated factor) (P/CAF)
	(Spermidine acetyltransferase KAT2B) (EC 2.3.1.57),FUNCTION: Functions as a histone
	acetyltransferase (HAT) to promote transcriptional activation (PubMed:8945521). Has
	significant histone acetyltransferase activity with core histones (H3 and H4), and also with
	nucleosome core particles (PubMed:8945521). Has a a strong preference for acetylation of H3
	at 'Lys-9' (H3K9ac) (PubMed:21131905). Also acetylates non-histone proteins, such as ACLY,
	MAPRE1/EB1, PLK4, RRP9/U3-55K and TBX5 (PubMed:9707565, PubMed:10675335,
	PubMed:23001180, PubMed:27796307, PubMed:23932781, PubMed:26867678,
	PubMed:29174768). Inhibits cell-cycle progression and counteracts the mitogenic activity of
	the adenoviral oncoprotein E1A (PubMed:8684459). Acts as a circadian transcriptional
	coactivator which enhances the activity of the circadian transcriptional activators: NPAS2-
	BMAL1 and CLOCK-BMAL1 heterodimers (PubMed:14645221). Involved in heart and limb
	development by mediating acetylation of TBX5, acetylation regulating nucleocytoplasmic
	shuttling of TBX5 (PubMed:29174768). Acts as a negative regulator of centrosome
	amplification by mediating acetylation of PLK4 (PubMed:27796307). Acetylates RRP9/U3-55K,
	a core subunit of the U3 snoRNP complex, impairing pre-rRNA processing (PubMed:26867678).
	Acetylates MAPRE1/EB1, promoting dynamic kinetochore-microtubule interactions in early
	mitosis (PubMed:23001180). Also acetylates spermidine (PubMed:27389534).
	{ECO:0000269 PubMed:10675335, ECO:0000269 PubMed:14645221,
	ECO:0000269 PubMed:21131905, ECO:0000269 PubMed:23001180,
	ECO:0000269 PubMed:23932781, ECO:0000269 PubMed:26867678,
	EC0:0000269 PubMed:27389534, EC0:0000269 PubMed:27796307,
	EC0:0000269 PubMed:29174768, EC0:0000269 PubMed:8684459,
	EC0:0000269 PubMed:8945521, EC0:0000269 PubMed:9707565}., FUNCTION: (Microbial
	infection) In case of HIV-1 infection, it is recruited by the viral protein Tat. Regulates Tat's
	transactivating activity and may help inducing chromatin remodeling of proviral genes.

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	{EC0:0000269 PubMed:12486002}.
Molecular Weight:	93.0 kDa
UniProt:	Q92831
Pathways:	p53 Signaling, Regulation of Carbohydrate Metabolic Process
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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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