

Datasheet for ABIN3094946 RAD23B Protein (AA 1-409) (Strep Tag)



Overview

Quantity:	1 mg
Target:	RAD23B
Protein Characteristics:	AA 1-409
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAD23B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA
Product Details	
Sequence:	MQVTLKTLQQ QTFKIDIDPE ETVKALKEKI ESEKGKDAFP VAGQKLIYAG KILNDDTALK
	EYKIDEKNFV VVMVTKPKAV STPAPATTQQ SAPASTTAVT SSTTTTVAQA PTPVPALAPT
	STPASITPAS ATASSEPAPA SAAKQEKPAE KPAETPVATS PTATDSTSGD SSRSNLFEDA
	STPASITPAS ATASSEPAPA SAAKQEKPAE KPAETPVATS PTATDSTSGD SSRSNLFEDA TSALVTGQSY ENMVTEIMSM GYEREQVIAA LRASFNNPDR AVEYLLMGIP GDRESQAVVD
	STPASITPAS ATASSEPAPA SAAKQEKPAE KPAETPVATS PTATDSTSGD SSRSNLFEDA TSALVTGQSY ENMVTEIMSM GYEREQVIAA LRASFNNPDR AVEYLLMGIP GDRESQAVVD PPQAASTGAP QSSAVAAAAA TTTATTTTTS SGGHPLEFLR NQPQFQQMRQ IIQQNPSLLP
	STPASITPAS ATASSEPAPA SAAKQEKPAE KPAETPVATS PTATDSTSGD SSRSNLFEDA TSALVTGQSY ENMVTEIMSM GYEREQVIAA LRASFNNPDR AVEYLLMGIP GDRESQAVVD PPQAASTGAP QSSAVAAAAA TTTATTTTTS SGGHPLEFLR NQPQFQQMRQ IIQQNPSLLP ALLQQIGREN PQLLQQISQH QEHFIQMLNE PVQEAGGQGG GGGGGSGGIA EAGSGHMNYI
	STPASITPAS ATASSEPAPA SAAKQEKPAE KPAETPVATS PTATDSTSGD SSRSNLFEDA TSALVTGQSY ENMVTEIMSM GYEREQVIAA LRASFNNPDR AVEYLLMGIP GDRESQAVVD PPQAASTGAP QSSAVAAAAA TTTATTTTTS SGGHPLEFLR NQPQFQQMRQ IIQQNPSLLP ALLQQIGREN PQLLQQISQH QEHFIQMLNE PVQEAGGQGG GGGGGSGGIA EAGSGHMNYI QVTPQEKEAI ERLKALGFPE GLVIQAYFAC EKNENLAANF LLQQNFDED
	STPASITPAS ATASSEPAPA SAAKQEKPAE KPAETPVATS PTATDSTSGD SSRSNLFEDA TSALVTGQSY ENMVTEIMSM GYEREQVIAA LRASFNNPDR AVEYLLMGIP GDRESQAVVD PPQAASTGAP QSSAVAAAAA TTTATTTTTS SGGHPLEFLR NQPQFQQMRQ IIQQNPSLLP ALLQQIGREN PQLLQQISQH QEHFIQMLNE PVQEAGGQGG GGGGGSGGIA EAGSGHMNYI QVTPQEKEAI ERLKALGFPE GLVIQAYFAC EKNENLAANF LLQQNFDED Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
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	STPASITPAS ATASSEPAPA SAAKQEKPAE KPAETPVATS PTATDSTSGD SSRSNLFEDA TSALVTGQSY ENMVTEIMSM GYEREQVIAA LRASFNNPDR AVEYLLMGIP GDRESQAVVD PPQAASTGAP QSSAVAAAAA TTTATTTTTS SGGHPLEFLR NQPQFQQMRQ IIQQNPSLLP ALLQQIGREN PQLLQQISQH QEHFIQMLNE PVQEAGGQGG GGGGGSGGIA EAGSGHMNYI QVTPQEKEAI ERLKALGFPE GLVIQAYFAC EKNENLAANF LLQQNFDED 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.
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- 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 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!

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 System (AliCE®).
Purity:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	RAD23B
Alternative Name:	RAD23B (RAD23B Products)
Background:	UV excision repair protein RAD23 homolog B (HR23B) (hHR23B) (XP-C repair-complementing

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 2/4 | Product datasheet for ABIN3094946 | 10/08/2024 | Copyright antibodies-online. All rights reserved. complex 58 kDa protein) (p58),FUNCTION: Multiubiquitin chain receptor involved in modulation of proteasomal degradation. Binds to polyubiquitin chains. Proposed to be capable to bind simultaneously to the 26S proteasome and to polyubiquitinated substrates and to deliver ubiquitinated proteins to the proteasome. May play a role in endoplasmic reticulum-associated degradation (ERAD) of misfolded glycoproteins by association with PNGase and delivering deglycosylated proteins to the proteasome., FUNCTION: Involved in global genome nucleotide excision repair (GG-NER) by acting as component of the XPC complex. Cooperatively with CETN2 appears to stabilize XPC. May protect XPC from proteasomal degradation., FUNCTION: The XPC complex is proposed to represent the first factor bound at the sites of DNA damage and together with other core recognition factors, XPA, RPA and the TFIIH complex, is part of the pre-incision (or initial recognition) complex. The XPC complex recognizes a wide spectrum of damaged DNA characterized by distortions of the DNA helix such as single-stranded loops, mismatched bubbles or single-stranded overhangs. The orientation of XPC complex binding appears to be crucial for inducing a productive NER. XPC complex is proposed to recognize and to interact with unpaired bases on the undamaged DNA strand which is followed by recruitment of the TFIIH complex and subsequent scanning for lesions in the opposite strand in a 5'-to-3' direction by the NER machinery. Cyclobutane pyrimidine dimers (CPDs) which are formed upon UV-induced DNA damage esacpe detection by the XPC complex due to a low degree of structural perurbation. Instead they are detected by the UV-DDB complex which in turn recruits and cooperates with the XPC complex in the respective DNA repair. In vitro, the XPC:RAD23B dimer is sufficient to initiate NER, it preferentially binds to cisplatin and UV-damaged doublestranded DNA and also binds to a variety of chemically and structurally diverse DNA adducts. XPC:RAD23B contacts DNA both 5' and 3' of a cisplatin lesion with a preference for the 5' side. XPC:RAD23B induces a bend in DNA upon binding. XPC:RAD23B stimulates the activity of DNA glycosylases TDG and SMUG1.

Molecular Weight:	43.2 kDa
UniProt:	P54727
Pathways:	DNA Damage Repair

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

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Expiry Date:

	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.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Unlimited (if stored properly)