Datasheet for ABIN3089480

TP53BP2 Protein (AA 1-1128) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TP53BP2
Protein Characteristics:	AA 1-1128
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TP53BP2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MMPMFLTVYL SNNEQHFTEV PVTPETICRD VVDLCKEPGE SDCHLAEVWC GSERPVADNE RMFDVLQRFG SQRNEVRFFL RHERPPGRDI VSGPRSQDPS LKRNGVKVPG EYRRKENGVN SPRMDLTLAE LQEMASRQQQ QIEAQQQLLA TKEQRLKFLK QQDQRQQQQV AEQEKLKRLK EIAENQEAKL KKVRALKGHV EQKRLSNGKL VEEIEQMNNL FQQKQRELVL AVSKVEELTR QLEMLKNGRI DSHHDNQSAV AELDRLYKEL QLRNKLNQEQ NAKLQQQREC LNKRNSEVAV MDKRVNELRD RLWKKKAALQ QKENLPVSSD GNLPQQAASA PSRVAAVGPY IQSSTMPRMP SRPELLVKPA LPDGSLVIQA SEGPMKIQTL PNMRSGAASQ TKGSKIHPVG PDWSPSNADL FPSQGSASVP QSTGNALDQV DDGEVPLREK EKKVRPFSMF DAVDQSNAPP SFGTLRKNQS SEDILRDAQV ANKNVAKVPP PVPTKPKQIN LPYFGQTNQP PSDIKPDGSS QQLSTVVPSM GTKPKPAGQQ PRVLLSPSIP SVGQDQTLSP GSKQESPPAA AVRPFTPQPS KDTLLPPFRK PQTVAASSIY SMYTQQQAPG KNFQQAVQSA LTKTHTRGPH FSSVYGKPVI AAAQNQQQHP

ENIYSNSQGK PGSPEPETEP VSSVQENHEN ERIPRPLSPT KLLPFLSNPY RNQSDADLEA LRKKLSNAPR PLKKRSSITE PEGPNGPNIQ KLLYQRTTIA AMETISVPSY PSKSASVTAS SESPVEIQNP YLHVEPEKEV VSLVPESLSP EDVGNASTEN SDMPAPSPGL DYEPEGVPDN SPNLQNNPEE PNPEAPHVLD VYLEEYPPYP PPPYPSGEPE GPGEDSVSMR PPEITGQVSL PPGKRTNLRK TGSERIAHGM RVKFNPLALL LDSSLEGEFD LVQRIIYEVD DPSLPNDEGI TALHNAVCAG HTEIVKFLVQ FGVNVNAADS DGWTPLHCAA SCNNVQVCKF LVESGAAVFA MTYSDMQTAA DKCEEMEEGY TQCSQFLYGV QEKMGIMNKG VIYALWDYEP QNDDELPMKE GDCMTIIHRE DEDEIEWWWA RLNDKEGYVP RNLLGLYPRI KPRQRSLA

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 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:

Product Details

- 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:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	TP53BP2
Alternative Name:	TP53BP2 (TP53BP2 Products)
Background:	Apoptosis-stimulating of p53 protein 2 (Bcl2-binding protein) (Bbp) (Renal carcinoma antigen NY-REN-51) (Tumor suppressor p53-binding protein 2) (53BP2) (p53-binding protein 2) (p53BP2),FUNCTION: Regulator that plays a central role in regulation of apoptosis and cell growth via its interactions with proteins such as TP53 (PubMed:12524540). Regulates TP53 by enhancing the DNA binding and transactivation function of TP53 on the promoters of proapoptotic genes in vivo. Inhibits the ability of NAE1 to conjugate NEDD8 to CUL1, and thereby decreases NAE1 ability to induce apoptosis. Impedes cell cycle progression at G2/M. Its apoptosis-stimulating activity is inhibited by its interaction with DDX42. {ECO:0000269|PubMed:11684014, ECO:0000269|PubMed:12524540, ECO:0000269|PubMed:12694406, ECO:0000269|PubMed:19377511}.
Molecular Weight:	125.6 kDa
UniProt:	Q13625

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

Application Details

	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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