antibodies

Datasheet for ABIN3096156 USP53 Protein (AA 1-1073) (Strep Tag)





Overview

Quantity:	1 mg
Target:	USP53
Protein Characteristics:	AA 1-1073
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP53 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAWVKFLRKP GGNLGKVYQP GSMLSLAPTK GLLNEPGQNS CFLNSAVQVL WQLDIFRRSL
	RVLTGHVCQG DACIFCALKT IFAQFQHSRE KALPSDNIRH ALAESFKDEQ RFQLGLMDDA
	AECFENMLER IHFHIVPSRD ADMCTSKSCI THQKFAMTLY EQCVCRSCGA SSDPLPFTEF
	VRYISTTALC NEVERMLERH ERFKPEMFAE LLQAANTTDD YRKCPSNCGQ KIKIRRVLMN
	CPEIVTIGLV WDSEHSDLTE AVVRNLATHL YLPGLFYRVT DENAKNSELN LVGMICYTSQ
	HYCAFAFHTK SSKWVFFDDA NVKEIGTRWK DVVSKCIRCH FQPLLLFYAN PDGTAVSTED
	ALRQVISWSH YKSVAENMGC EKPVIHKSDN LKENGFGDQA KQRENQKFPT DNISSSNRSH
	SHTGVGKGPA KLSHIDQREK IKDISRECAL KAIEQKNLLS SQRKDLEKGQ RKDLGRHRDL
	VDEDLSHFQS GSPPAPNGFK QHGNPHLYHS QGKGSYKHDR VVPQSRASAQ IISSSKSQIL
	APGEKITGKV KSDNGTGYDT DSSQDSRDRG NSCDSSSKSR NRGWKPMRET LNVDSIFSES
	EKRQHSPRHK PNISNKPKSS KDPSFSNWPK ENPKQKGLMT IYEDEMKQEI GSRSSLESNG
	KGAEKNKGLV EGKVHGDNWQ MQRTESGYES SDHISNGSTN LDSPVIDGNG TVMDISGVKE

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IKRSHVHEDN GKLFPSSSLQ IPKDHNAREH IHQSDEQKLE KPNECKFSEW LNIENSERTG
LPFHVDNSAS GKRVNSNEPS SLWSSHLRTV GLKPETAPLI QQQNIMDQCY FENSLSTECI
IRSASRSDGC QMPKLFCQNL PPPLPPKKYA ITSVPQSEKS ESTPDVKLTE VFKATSHLPK
HSLSTASEPS LEVSTHMNDE RHKETFQVRE CFGNTPNCPS SSSTNDFQAN SGAIDAFCQP
ELDSISTCPN ETVSLTTYFS VDSCMTDTYR LKYHQRPKLS FPESSGFCNN SLS
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.
- 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.

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	 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:	USP53
Alternative Name:	USP53 (USP53 Products)
Background:	Inactive ubiquitin carboxyl-terminal hydrolase 53 (Inactive ubiquitin-specific peptidase 53),FUNCTION: Tight junction-associated protein that is involved in the survival of auditory hair cells and hearing. Maybe by modulating the barrier properties and mechanical stability of tight junctions. Has no peptidase activity (PubMed:14715245). {ECO:0000269 PubMed:14715245, ECO:0000269 PubMed:32124521}.
Molecular Weight:	120.8 kDa
UniProt:	Q70EK8

Application Details

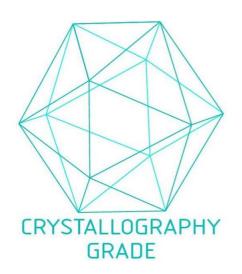
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce

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	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:	

Images

Expiry Date:



Unlimited (if stored properly)

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

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