antibodies

Datasheet for ABIN3126389 USP45 Protein (AA 1-813) (Strep Tag)



Overview

Quantity:	1 mg
Target:	USP45
Protein Characteristics:	AA 1-813
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP45 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MRVKDPSKDL PEKGKRNKRP LLPHDEDSSD DIAVGLTCQH VSYAVSVNHV KKAVAESLWS
	VCSECLKERR FCDGQPVLPA DVWLCLKCGL QGCGKNSESQ HSLRHFKSSG TESHCVVISL
	STWVIWCYEC NEKLSTHCNK KVLAQIVDFL QKHAFKTQTG AFSRIIKLCE EKREAGEIKK
	GKKGCTVPSV KGITNLGNTC FFNAVIQNLA QTYILFELMN EIKEDGTKFK ISLSSAPQLE
	PLVVELSSPG PLTSALFLFL HSMKEAEKGP LSPKVLFNQL CQKAPRFKGF QQQDSQELLH
	HLLDAVRTEE TKRIQASILK AFNNPTTKTA DDETRKKVKA YGKEGVKMNF IDRIFIGELT
	STVMCEECAN ISTMKDPFID ISLPIIEERV SKPVLLGKMS KCRSLQETDQ DHNKGTVTVG
	NAHQPRASRK HSSPNDKNQL SHDRKHLRKW PSEEEKTVVT HPKNDNLEAS PPASTLSTEA
	SLNESLTDGS ERDASLESSV DADSEASEPE IASKQPVLLR SRGDSCGHAE QHPHLPLASE
	LPQAKETHGG EEEMAEAIAE LHLSGTVTGN RDFHREKQPL NVPNNLCFSE GKHTRLHSAQ
	NAFQTLSQSY VTTSKECSVQ SCLYQFTSME LLMGNNKLLC EDCTEKRRKC HKETSSAEKK
	AGGVYTNARK QLLISAVPAI LILHLKRFHQ AGLSLRKVNR HVDFPLTLDL APFCAATCKN

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ISVGEKVLYG LYGIVEHSGS MRGGHYTAYV KVRVPSRKLS ECITGRKTAA GLKEPDGELG GHWVHVSDTY VQVVPESRAL SAQAYLLFYE RIL

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.
- 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.

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Product Details Purification: Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. 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. 2. 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)</td> Grade: Crystallography grade

Target Details

Target:	USP45
Alternative Name:	Usp45 (USP45 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 45 (EC 3.4.19.12) (Deubiquitinating enzyme 45) (Ubiquitin
	thioesterase 45) (Ubiquitin-specific-processing protease 45),FUNCTION: Catalyzes the
	deubiquitination of SPDL1 (By similarity). Plays a role in the repair of UV-induced DNA damage
	via deubiquitination of ERCC1, promoting its recruitment to DNA damage sites (By similarity).
	May be involved in the maintenance of photoreceptor function (PubMed:30573563). May play a
	role in normal retinal development (By similarity). Plays a role in cell migration (By similarity).
	{ECO:0000250 UniProtKB:E9QG68, ECO:0000250 UniProtKB:Q70EL2,
	ECO:0000269 PubMed:30573563}.
Molecular Weight:	90.4 kDa
UniProt:	Q8K387
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

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	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	
Handling	
Format:	Liquid
	Liquid The buffer composition is at the discretion of the manufacturer. If you have a special request,
Format:	
Format:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
Format: Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us. Avoid repeated freeze-thaw cycles.