

Datasheet for ABIN3120042 PTPN4 Protein (AA 1-926) (Strep Tag)



Overview

Quantity:	250 µg
Target:	PTPN4
Protein Characteristics:	AA 1-926
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPN4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MTARFRLPAG RTYNVRASEL ARDRQHTEVV CNILLLDNTV QAFRVNKHDQ GQVLLDIVFK
	HLDLTERDYF GLQLADDSTD NPRWLDPNKP IRKQLKRGSP YNLNFRVKFF VSDPNKLQEE
	YTRYQYFLQI KQDILTGRLS CPCNTAALLA SFAVQSELGD YNQSENLAGY LSDYSFIPNQ
	PQDFEKEIAK LHQQHVGLSP AEAEFNYLNA ARTLELYGVE FHYARDQSNN EILIGVMSGG
	ILIYKNRVRM NTFLWLKIVK ISFKCKQFFI QLRKELHESR ETLLGFNMVN YRACKTLWKA
	CVEHHTFFRL DRPLPPQKNF FAHYFTLGSK FRYCGRTEVQ SVQYGKEKAN KDRVFARSPS
	KPLARKLMDW EVVSRNSLSD DRLETQSLPS RSPPGTPNHR NSSFTQEATR VRPSSVGHLV
	DHVVHMSPSE DFVSQRSPSS TQANSIVLES SPSQETPEDG QPPALPPKQS KKNSWNQIHF
	SNSQQDLVTH TNESFDVPSS PEKSTPNGGI PHDNLVLIKM KPDENGRFGF NVKGGYDQKM
	PVIVSRVAPG TPADLCVPRL NEGDQVVLIN GRDIAEHTHD QVVLFIKASC EKHSGELVLL
	VRPNAVYDVV EEKLESEPDF QYIPEKAPLD SVHQDDHSLR ESMIQLAEGL ITGTVLAQFD

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 ABIN3120042 | 02/26/2025 | Copyright antibodies-online. All rights reserved. QLYRKKPGMT MSCAKLPQNI SKNRYRDISP YDATRVLLKG NEDYINANYI NMEIPSSSII NQYIACQGPL PHTCKDFWQM TWEQGSSMVV MLTTQVERGR VKCHQYWPEP SESSSYGCYQ VTCHSEEGNP AYIFRKMTLF NQEKNESRQL TQIQYTAWPD HGVPDDSSDF LDFVCHVRDQ RAGKEEPIIV HCSAGIGRTG VLITMETAMC LIECNQPVYP LDIVRTMRDQ RAMMIQTPSQ YRFVCEAILK VYEEGFVKPL TTSSNK

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.

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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:	PTPN4
Alternative Name:	Ptpn4 (PTPN4 Products)
Background:	Tyrosine-protein phosphatase non-receptor type 4 (EC 3.1.3.48) (Testis-enriched protein
	tyrosine phosphatase),FUNCTION: Phosphatase that plays a role in immunity, learning, synaptic
	plasticity or cell homeostasis (PubMed:17953619, PubMed:25825441). Regulates neuronal cell
	homeostasis by protecting neurons against apoptosis (By similarity). Negatively regulates
	TLR4-induced interferon beta production by dephosphorylating adapter TICAM2 and inhibiting
	subsequent TRAM-TRIF interaction (PubMed:25825441). Dephosphorylates also the
	immunoreceptor tyrosine-based activation motifs/ITAMs of the TCR zeta subunit and thereby
	negatively regulates TCR-mediated signaling pathway (PubMed:18614237). May act at
	junctions between the membrane and the cytoskeleton. {ECO:0000250,
	ECO:0000250 UniProtKB:P29074, ECO:0000269 PubMed:17953619,
	ECO:0000269 PubMed:18614237, ECO:0000269 PubMed:25825441}.
Molecular Weight:	105.8 kDa
UniProt:	Q9WU22
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

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Application Details	
	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