antibodies

Datasheet for ABIN3093993 PPP1R12A Protein (AA 1-1030) (Strep Tag)





Overview

Quantity:	1 mg
Target:	PPP1R12A
Protein Characteristics:	AA 1-1030
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP1R12A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MKMADAKQKR NEQLKRWIGS ETDLEPPVVK RQKTKVKFDD GAVFLAACSS GDTDEVLKLL
	HRGADINYAN VDGLTALHQA CIDDNVDMVK FLVENGANIN QPDNEGWIPL HAAASCGYLD
	IAEFLIGQGA HVGAVNSEGD TPLDIAEEEA MEELLQNEVN RQGVDIEAAR KEEERIMLRD
	ARQWLNSGHI NDVRHAKSGG TALHVAAAKG YTEVLKLLIQ AGYDVNIKDY DGWTPLHAAA
	HWGKEEACRI LVDNLCDMEM VNKVGQTAFD VADEDILGYL EELQKKQNLL HSEKRDKKSP
	LIESTANMDN NQSQKTFKNK ETLIIEPEKN ASRIESLEQE KVDEEEEGKK DESSCSSEED
	EEDDSESEAE TDKTKPLASV TNANTSSTQA APVAVTTPTV SSGQATPTSP IKKFPTTATK
	ISPKEEERKD ESPATWRLGL RKTGSYGALA EITASKEGQK EKDTAGVTRS ASSPRLSSSL
	DNKEKEKDSK GTRLAYVAPT IPRRLASTSD IEEKENRDSS SLRTSSSYTR RKWEDDLKKN
	SSVNEGSTYH KSCSFGRRQD DLISSSVPST TSTPTVTSAA GLQKSLLSST STTTKITTGS
	SSAGTQSSTS NRLWAEDSTE KEKDSVPTAV TIPVAPTVVN AAASTTTLTT TTAGTVSSTT
	EVRERRRSYL TPVRDEESES QRKARSRQAR QSRRSTQGVT LTDLQEAEKT IGRSRSTRTR

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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:	PPP1R12A
Alternative Name:	PPP1R12A (PPP1R12A Products)
Background:	Protein phosphatase 1 regulatory subunit 12A (Myosin phosphatase-targeting subunit 1) (Myosin phosphatase target subunit 1) (Protein phosphatase myosin-binding subunit),FUNCTION: Key regulator of protein phosphatase 1C (PPP1C). Mediates binding to myosin. As part of the PPP1C complex, involved in dephosphorylation of PLK1. Capable of inhibiting HIF1AN-dependent suppression of HIF1A activity. {ECO:0000269 PubMed:18477460 ECO:0000269 PubMed:19245366, ECO:0000269 PubMed:20354225}.
Molecular Weight:	115.3 kDa
UniProt:	014974
Pathways:	M Phase
Application Details	
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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.

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Application Details 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 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.
Expiry Date:	Unlimited (if stored properly)

Images

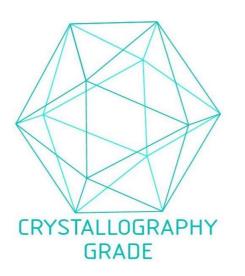


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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