Datasheet for ABIN3095079

RNF216 Protein (AA 1-866) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RNF216
Protein Characteristics:	AA 1-866
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF216 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MEEGNNNEEV IHLNNFHCHR GQEWINLRDG PITISDSSDE ERIPMLVTPA PQQHEEEDLD DDVILTEDDS EDDYGEFLDL GPPGISEFTK PSGQTEREPK PGPSHNQAAN DIVNPRSEQK VIILEEGSLL YTESDPLETQ NQSSEDSETE LLSNLGESAA LADDQAIEED CWLDHPYFQS LNQQPREITN QVVPQERQPE AELGRLLFQH EFPGPAFPRP EPQQGGISGP SSPQPAHPLG EFEDQQLASD DEEPGPAFPM QESQEPNLEN IWGQEAAEVD QELVELLVKE TEARFPDVAN GFIEEIIHFK NYYDLNVLCN FLLENPDYPK REDRIIINPS SSLLASQDET KLPKIDFFDY SKLTPLDQRC FIQAADLLMA DFKVLSSQDI KWALHELKGH YAITRKALSD AIKKWQELSP ETSGKRKKRK QMNQYSYIDF KFEQGDIKIE KRMFFLENKR RHCRSYDRRA LLPAVQQEQE FYEQKIKEMA EHEDFLLALQ MNEEQYQKDG QLIECRCCYG EFPFEELTQC ADAHLFCKEC LIRYAQEAVF GSGKLELSCM EGSCTCSFPT SELEKVLPQT ILYKYYERKA EEEVAAAYAD ELVRCPSCSF PALLDSDVKR FSCPNPHCRK ETCRKCQGLW KEHNGLTCEE LAEKDDIKYR

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TSIEEKMTAA RIRKCHKCGT GLIKSEGCNR MSCRCGAQMC YLCRVSINGY DHFCQHPRSP GAPCQECSRC SLWTDPTEDD EKLIEEIQKE AEEEQKRKNG ENTFKRIGPP LEKPVEKVQR VEALPRPVPQ NLPQPQMPPY AFAHPPFPLP PVRPVFNNFP LNMGPIPAPY VPPLPNVRVN YDFGPIHMPL EHNLPMHFGP QPRHRF

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:

- 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.

Product Details

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:	RNF216
Alternative Name:	RNF216 (RNF216 Products)
Background:	E3 ubiquitin-protein ligase RNF216 (EC 2.3.2.27) (RING finger protein 216) (RING-type E3 ubiquitin transferase RNF216) (Triad domain-containing protein 3) (Ubiquitin-conjugating enzyme 7-interacting protein 1) (Zinc finger protein inhibiting NF-kappa-B),FUNCTION: [Isoform 1]: E3 ubiquitin ligase which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their ubiquitination (PubMed:34998453). Plays a role in the regulation of antiviral responses by promoting the degradation of TRAF3, TLR4 and TLR9 (PubMed:15107846, PubMed:19893624). In turn, down-regulates NF-kappa-B and IRF3 activation as well as beta interferon production. Participates also in the regulation of autophagy by ubiquitinating BECN1 leading to its degradation and autophagy inhibition (PubMed:25484083). Plays a role in ARC-dependent synaptic plasticity by mediating ARC ubiquitination resulting in its rapid proteasomal degradation (PubMed:24945773). Plays aso an essential role in spermatogenesis and male fertility (By similarity). Mechanistically, regulates meiosis by promoting the degradation of PRKACB through the ubiquitin-mediated lysosome pathway (By similarity). Modulates the gonadotropin-releasing hormone signal pathway by affecting the stability of STAU2 that is required for the microtubule-dependent transport of neuronal RNA from the cell body to the dendrite (By similarity). {ECO:0000250|UniProtKB:P58283, ECO:0000269|PubMed:15107846, ECO:0000269|PubMed:19893624, ECO:0000269|PubMed:24945773, ECO:0000269|PubMed:25484083, ECO:0000269|PubMed:34998453}., FUNCTION: [Isoform 3]: Inhibits TNF and IL-1 mediated activation of NF-kappa-B. Promotes TNF and RIP mediated apoptosis. {ECO:0000269|PubMed:11854271}.
Molecular Weight:	99.4 kDa
UniProt:	Q9NWF9

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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 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