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Datasheet for ABIN3136122
RUSC1 Protein (AA 1-893) (Strep Tag)

Overview

Quantity:	1 mg
Target:	RUSC1
Protein Characteristics:	AA 1-893
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RUSC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MLSPQRALLC NLNHIHLQHV SLGLHLSRRP ELREGPLSTP PPPGDTGGKE SRGPCSGTLV
DANSNSPAVP CRCCQEHGSS IENQQDPSQE EEA VSPSDPG CSSSLSSCSD LSPDESPVSV
YSRDLPGNED ANPQPSTLEL GSPLAPAGPS TCSPDSFCCS PDSCSGISSP PGPDLDSNCN
ALTTCQDLPS PGLEEEEDSG EQDLATSELS ETEDGRIDAG KAEP SWKINP IWKIDTEKTE
AGWKTIEDSD SGRKTDENTN SSLKTESGKL ASCLNTNSGS KIDAGKTDGG WRGDVSEQEPV
PHRTITSFHE LAQKRKRGP LPLVPQAKKD RSDWLIVFSP DTELPTGSL GGSLAPPREV
TTFKELRSRS RAQPPPVPPR DPPAGWALVP PRPPPPVPP RRKKNRLGLQ PIAEGLSEEG
RAASPRAGEE ASASQEPEEP RAHAVVRSSW SFAGVPGAQR LWMAEAQSGT GQLQEQQKGL
LIAVSASVDK IISHFGAARN LVQKAQLGDS RLSPDVGHV LTTLCPALHA LVADGLKPFER
KDLITGQRRS SPWSVVEASV KPGSCTHSMG SLYSQVSRLA PLSSSRSRFH AFILGLLNTK
QLELWFSSLQ EDAGLLSLLY LPTGFFSLAR GSCPSLATEL LLLLQPLSVL TFHLDLLFEH
HHHLPVGLQQ APAPSCPPPA LQQTMQAVLH WGERLAQSLR GTSGESTTDS STPSARPPAG

SWWDQLTQAS RYVYASGGTEG FPLLRWGPRR HGTTAEAAQE APPPTEQTTP GRSVWLGRLF
GVPGCPSETE SGAFKSRRPS SWLPPTVSVL ALVKRGTPPE TPPEALVSSP GSVVQADRAV
RALCDHTAAG PDQLSFQRGE LLRVIATVDE DWLRCGRDGV EGLVPVGYTS LVL

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 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 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.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">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)

Target Details

Target:	RUSC1
Alternative Name:	Rusc1 (RUSC1 Products)
Background:	AP-4 complex accessory subunit RUSC1 (New molecule containing SH3 at the carboxy-terminus) (Nesca) (RUN and SH3 domain-containing protein 1),FUNCTION: Associates with the adapter-like complex 4 (AP-4) and may therefore play a role in vesicular trafficking of proteins at the trans-Golgi network. Signaling adapter which plays a role in neuronal differentiation. Involved in regulation of NGF-dependent neurite outgrowth (By similarity). May play a role in neuronal vesicular trafficking, specifically involving pre-synaptic membrane proteins (PubMed:22404429). Seems to be involved in signaling pathways that are regulated by the prolonged activation of MAPK. Can regulate the polyubiquitination of IKBKG and thus may be involved in regulation of the NF-kappa-B pathway (By similarity). {ECO:0000250 UniProtKB:Q9BVN2, ECO:0000269 PubMed:22404429}.
Molecular Weight:	95.2 kDa
UniProt:	Q8BG26

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 <i>Nicotiana tabacum</i> 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

Application Details

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)