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Datasheet for ABIN3095048
RNF169 Protein (AA 1-708) (Strep Tag)

Overview

Quantity:	1 mg
Target:	RNF169
Protein Characteristics:	AA 1-708
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF169 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MAAAGPSTRA SSAAAAAALS RRGRRCRCDE TAAAKTGAPG PASGPSLLVL SPPLLQPPLP
PRPEESGCAG CLEPPGEGAAA LPCGHSLCRG CAQRAADAAG PGCPRCRARG PGWARRRARD
DGQADSEVLG ECARRSQPER CRPRRDGGAA AAGPRPEQEP RAAPAEPDFI FRAPIKLSKP
GELREEYESL RKLREEKLQE EKPSAQIHK LLPEDTETGK RKMDEQKKRD EPLVLKTNLE
RCPARLSDSE NEEPSRGQMT QTHRSFAVSK NNSYSLAFLA GKLNSKVERS QSCSDTAQER
AKSRVRAVPG NKAKVTTMTP ASNPIIGVLL STQNNRCVSA PDLTIEKRLP FSSLSSLASL
HKPERSVSPE SNDSISEELN HFKPIVCSPC TPPKRLPDGR VLSPLIKST PRNLNRSKQK
QTSYEASPRI LKKWEQIFQE RQIKKTLKA TLTSAPEMG EELGSEGIH SSKEKPLVAV
NTRLGGQVL SEYTGPTSAD LDHFPSVSQT KAEQSDNKS STEIPLTCC SSELKGGGSG
TSLEREQFEG LGSTPDAKLD KTCISRAMKI TTVNSVLPQN SVLGGVLKTK QQLKTLNHFD
LTNGVLVESL SEEPLPSLRG GRKRHCKTKH LEQNGSLKKL RQTSGEVGLA PTDPVLRME
QKLQEEEDR QLALQLQRMF DNERRTVSRR KGSVDQYLLR SSNMAGAK

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.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

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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: RNF169

Alternative Name: RNF169 ([RNF169 Products](#))

Background: E3 ubiquitin-protein ligase RNF169 (EC 2.3.2.27) (RING finger protein 169) (RING-type E3 ubiquitin transferase RNF169),FUNCTION: Probable E3 ubiquitin-protein ligase that acts as a regulator of double-strand breaks (DSBs) repair following DNA damage. Functions in a non-canonical fashion to harness RNF168-mediated protein recruitment to DSB-containing chromatin, thereby contributing to regulation of DSB repair pathway utilization (PubMed:22492721, PubMed:30773093). Once recruited to DSB repair sites by recognizing and binding ubiquitin catalyzed by RNF168, competes with TP53BP1 and BRCA1 for association with RNF168-modified chromatin, thereby favouring homologous recombination repair (HRR) and single-strand annealing (SSA) instead of non-homologous end joining (NHEJ) mediated by TP53BP1 (PubMed:30104380, PubMed:30773093). E3 ubiquitin-protein ligase activity is not required for regulation of DSBs repair. {ECO:0000269|PubMed:22492721, ECO:0000269|PubMed:22733822, ECO:0000269|PubMed:22742833, ECO:0000269|PubMed:30104380, ECO:0000269|PubMed:30773093}.

Molecular Weight: 77.2 kDa

UniProt: [Q8NCN4](#)

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

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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)