Datasheet for ABIN3095048

RNF169 Protein (AA 1-708) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RNF169
Protein Characteristics:	AA 1-708
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF169 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAAAGPSTRA SSAAAAAALS RRGRRGRCDE TAAAKTGAPG PASGPSLLVL SPPLLQPPLP PRPEESGCAG CLEPPGEAAA LPCGHSLCRG CAQRAADAAG PGCPRCRARG PGWARRRARD DGQADSEVLG ECARRSQPER CRPRRDGGAA AAGPRPEQEP RAAPAEPDFI FRAPIKLSKP GELREEYESL RKLREEKLQE EKPSEDQIHK LLPEDTETGK RKMDEQKKRD EPLVLKTNLE RCPARLSDSE NEEPSRGQMT QTHRSAFVSK NNSYSLAFLA GKLNSKVERS QSCSDTAQER AKSRVRAVPG NKAKVTTMTP ASNPIIGVLL STQNNRCVSA PDLTIEKRLP FSSLSSLASL HKPERSVSPE SNDSISEELN HFKPIVCSPC TPPKRLPDGR VLSPLIIKST PRNLNRSLQK QTSYEASPRI LKKWEQIFQE RQIKKTLSKA TLTSLAPEMG EELLGSEGIH SSKEKPLVAV NTRLSGGQVL SEYTGPTSAD LDHFPSVSQT KAEQDSDNKS STEIPLETCC SSELKGGGSG TSLEREQFEG LGSTPDAKLD KTCISRAMKI TTVNSVLPQN SVLGGVLKTK QQLKTLNHFD LTNGVLVESL SEEPLPSLRR GRKRHCKTKH LEQNGSLKKL RQTSGEVGLA PTDPVLREME

	QKLQQEEEDR 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 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.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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 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

Application Details

	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