

Datasheet for ABIN3087357
RNF135 Protein (AA 1-432) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	RNF135
Protein Characteristics:	AA 1-432
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF135 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MAGLGLGSAV PVWLAEDDLG CIICQGLLDW PATLPCGHSF CRHCLEALWG ARDARRWACP
TCRQGAAQQP HLRKNTLLQD LADKYRRAAR EIQAGSDPAH CPCPGSSSL SAAARPRRRP
ELQRVAVEKS ITEVAQELTE LVEHLVDIVR SLQNQRPLSE SGPDNELSIL GKAFSSGVDL
SMASPKLVTS DTAAGKIRDI LHDLEEIQEK LQESVTWKEA PEAQMQGELL EAPSSSSCPL
PDQSHPALRR ASRFAQWAIH PTFNLKSLSC SLEVSKDSRT VTVSHRPQPY RWSCERFSTS
QVLCSQLSS GKHYWEVDTR NCSHWAVGVA SWEMSRDQVL GRTMDSCCVE WKGTSQLSAW
HMKETVLGS DRPGVVGIWL NLEEGKLAFY SVDNQEKLLY ECTISASSPL YPAFWLYGLH
PGNYLIKQV KV

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:

Product Details

- 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®).

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

Target Details

Target: RNF135

Alternative Name: RNF135 ([RNF135 Products](#))

Target Details

Background: E3 ubiquitin-protein ligase RNF135 (EC 2.3.2.27) (RIG-I E3 ubiquitin ligase) (REUL) (RING finger protein 135) (RING finger protein leading to RIG-I activation) (Riplet) (RING-type E3 ubiquitin transferase RNF135),FUNCTION: E2-dependent E3 ubiquitin-protein ligase that functions as a RIGI coreceptor in the sensing of viral RNAs in cell cytoplasm and the activation of the antiviral innate immune response (PubMed:19017631, PubMed:19484123, PubMed:21147464, PubMed:23950712, PubMed:28469175, PubMed:31006531). Together with the UBE2D3, UBE2N and UB2V1 E2 ligases, catalyzes the 'Lys-63'-linked polyubiquitination of RIGI oligomerized on viral RNAs, an essential step in the activation of the RIG-I signaling pathway (PubMed:19017631, PubMed:21147464, PubMed:28469175, PubMed:31006531). Through a ubiquitin-independent parallel mechanism, which consists in bridging RIGI filaments forming on longer viral RNAs, further activates the RIG-I signaling pathway (PubMed:31006531). This second mechanism that synergizes with the ubiquitin-dependent one would thereby allow an RNA length-dependent regulation of the RIG-I signaling pathway (Probable). Associated with the E2 ligase UBE2N, also constitutively synthesizes unanchored 'Lys-63'-linked polyubiquitin chains that may also activate the RIG-I signaling pathway (PubMed:28469175, PubMed:31006531). {ECO:0000269|PubMed:19017631, ECO:0000269|PubMed:19484123, ECO:0000269|PubMed:21147464, ECO:0000269|PubMed:23950712, ECO:0000269|PubMed:28469175, ECO:0000269|PubMed:31006531, ECO:0000305|PubMed:31006531}.

Molecular Weight: 47.9 kDa

UniProt: [Q8IUD6](#)

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.

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Application Details

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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