

Datasheet for ABIN7555130
RC3H1 Protein (AA 1-1133) (His tag)



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Overview

Quantity:	1 mg
Target:	RC3H1
Protein Characteristics:	AA 1-1133
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RC3H1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RC3H1 Protein expressed in mammalian cells.
Sequence:	MPVQAPQWTD FLSCPICTQT FDETIRKPIS LGCGHTVCKM CLNKLHRKAC PFDQTTINTD IELLPVNSAL LQLVGAQVPE QQPITLCSGV EDTKHYEAK KCVEELALYL KPLSSARGVG LNSTTQSVLS RPMQRKLVTL VHCQLVEEEG RIRAMRAARS LGERTVTELI LQHQNPPQLS SNLWAAVRAR GCQFLGPAMQ EEALKLVLLA LEDGSALSRK VLVLFFVQRL EPRFPQASKT SIGHVVQLLY RASCFKVTKR DEDSSLMQLK EEFRTYEALR REHDSQIVQI AMEAGLRIAP DQWSSLLYGD QSHKSHMQSI IDKLQTPASF AQSVQELTIA LQRTGDPANL NRLRPHLELL ANIDPSPDAP PPTWEQLENG LVAVRTVVHG LVDYIQNHKS KGADQQQPPQ HSKYKTYMCR DMKQRGGCPR GASCTFAHSQ EEEKFRKMN KRLVPRRPLS ASLGQLNEVG LPSAAILPDE GAVDLPSRKP PALPNGIVST GNTVTQLIPR GTDPSYDSSL KPGKIDHLSS SAPGSPPDLL ESVPKSISAL PVNPHSIPPR GPADLPMPV TKPLQMVPRG SQLYPAQQT D VYYQDPRGAA PPFEPAPYQQ GMYTTPPPQC VSRFVRPPPS APEPAPPYLD HYPPYLQERV VNSQYGTQPQ QYPPIYPSHY DGRRVYPAPS YTREEIFRES PIPIEIPPA VPSYVPESRE RYQQIESYYP

VAPHPTQIRP SYLREPPYSR LPPPPQPHPS LDELHRRRKE IMAQLEERKV ISPPPFAPSP
TLPPTFHPEE FLDEDLKVAG KYKGNDSYQY SPWSCDTIGS YIGTKDAKPK DVVAAGSVEM
MNVESKGMRD QRLDLQRRAA ETSDDDLIPF GDRPTVSRFG AISRTSKTIY QGAGPMQAMA
PQGAPTKSIN ISDYSPYGTH GGWGASPYSP HQNIPSQGHF SERERISMSE VASHGKPLPS
AEREQLRELE QQLNHQISQQ TQLRGLEAVS NRLVLQREAN TLAGQSQPPP PPPPKWPGMI
SSEQLSLELH QVEREIGKRT RELSMENQCS LDMKSKLNTS KQAENGQPEP QNKVPAEDLT
LTFSDVPNGS ALTQENISLL SNKTSSLNLS EDPEGGGDNN DSQRSGVTPS SAP **Sequence**
without tag. The proposed Purification-Tag is based on experiences 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.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: RC3H1

Alternative Name: RC3H1 ([RC3H1 Products](#))

Background: Roquin-1 (Roquin) (EC 2.3.2.27) (RING finger and C3H zinc finger protein 1) (RING finger and

Target Details

CCCH-type zinc finger domain-containing protein 1) (RING finger protein 198),FUNCTION: Post-transcriptional repressor of mRNAs containing a conserved stem loop motif, called constitutive decay element (CDE), which is often located in the 3'-UTR, as in HMGXB3, ICOS, IER3, NFKBID, NFKBIZ, PPP1R10, TNF, TNFRSF4 and in many more mRNAs (PubMed:25026078, PubMed:31636267). Cleaves translationally inactive mRNAs harboring a stem-loop (SL), often located in their 3'-UTRs, during the early phase of inflammation in a helicase UPF1-independent manner (By similarity). Binds to CDE and promotes mRNA deadenylation and degradation. This process does not involve miRNAs (By similarity). In follicular helper T (Tfh) cells, represses of ICOS and TNFRSF4 expression, thus preventing spontaneous Tfh cell differentiation, germinal center B-cell differentiation in the absence of immunization and autoimmunity (By similarity). In resting or LPS-stimulated macrophages, controls inflammation by suppressing TNF expression (By similarity). Also recognizes CDE in its own mRNA and in that of paralogous RC3H2, possibly leading to feedback loop regulation (By similarity). Recognizes and binds mRNAs containing a hexaloop stem-loop motif, called alternative decay element (ADE) (By similarity). Together with ZC3H12A, destabilizes TNFRSF4/OX40 mRNA by binding to the conserved stem loop structure in its 3'UTR (By similarity). Able to interact with double-stranded RNA (dsRNA) (PubMed:25504471, PubMed:25026078). miRNA-binding protein that regulates microRNA homeostasis. Enhances DICER-mediated processing of pre-MIR146a but reduces mature MIR146a levels through an increase of 3' end uridylation. Both inhibits ICOS mRNA expression and they may act together to exert the suppression (PubMed:25697406, PubMed:31636267). Acts as a ubiquitin E3 ligase. Pairs with E2 enzymes UBE2A, UBE2B, UBE2D2, UBE2F, UBE2G1, UBE2G2 and UBE2L3 and produces polyubiquitin chains (PubMed:26489670). Shows the strongest activity when paired with UBE2N:UBE2V1 or UBE2N:UBE2V2 E2 complexes and generate both short and long polyubiquitin chains (PubMed:26489670). {ECO:0000250|UniProtKB:Q4VGL6, ECO:0000269|PubMed:25026078, ECO:0000269|PubMed:25504471, ECO:0000269|PubMed:25697406, ECO:0000269|PubMed:26489670, ECO:0000269|PubMed:31636267}.

Molecular Weight: 125.7 kDa

UniProt: [Q5TC82](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#), [Activated T Cell Proliferation](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months