

Datasheet for ABIN7564865

RNF31 Protein (AA 1-1066) (His tag)



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Overview

Quantity:	1 mg
Target:	RNF31
Protein Characteristics:	AA 1-1066
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF31 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Rnf31 Protein expressed in mammalian cells.
Sequence:	<p>MPGDEERGFL AAREELASAL RWDSAQVFPL EQLMPLLATS LPPAARYLQL DAGRLVRCNA</p> <p>HGEPRNYLNT LSTALNILEK YGRNLLSPQR PRYWRSVKFN NPVFRSTVDA VQGGRDVLRL</p> <p>YGYTEERPDG LSFPEGQEEP DEYQVAVVTLEVLLRTELS LLLQNTHPRQ NALDQLLRES</p> <p>VEDGMLQLSE FHPLLREIVP GPRPSAQGST PGPCFLCGSA PGTLHCPACN QVSCPACDIL</p> <p>FHGHPSRAHH LRQALPGSHQ TASLSSSLPA SSQPRPPSSS LALGDSSLSS PDPANACL PW</p> <p>HCLTCATLNE PWAVFCAVCS QPKGCKVPGI EGSHTGGLE PEPARDQWAC QSCTFENEAA</p> <p>AVLCAICERP RLAQPPSLVV DSHDAGVCQQ SLKQEDPLLT AAQPQVWYCD HCTFCNSGPV</p> <p>WVCAMCNRTR DPIPTQPALQ SYPSSLEKGR PKPGSSQHLG SSLPASCGBP EKQRQDKMRK</p> <p>EGLQLVSMIQ EGETAGASPE EVFSALQYSG TEVPLQWLRS ELSYVLEMVA ELAQQQDPEL</p> <p>GAFSCQEARK AWLDRHGNLD EAVEECVRAR RRVHELQSL GFGPKEGSLQ ALFQHGGDVA</p> <p>RALTELQRQR LEPFHQRLWD RDPEPTPCWD GLDRQSLVRR LLAVYTLPSW GRAELALALL</p>

QETPRNYELL DVVEAVRHSQ DRAFLRRLA QECAVCGWAL PRNRMQALIS CECTICPECF
RQHFTIALKE KHITDMVCPA CGRPDLTDDA QLLSYFSTLD IQLRESLDPD AYALFHKKLT
EAVLMRDPKF LWCAQCSFGF IYEREQLEAT CPQCHQTFCV RCKRQWEEQH RGRSCEDFQN
WKRTNDPEYQ AQGLAMYLQE NGIDCPKCKF SYALARGGCM HFHCTQCRHQ FCSGCYNFY
AKNKCPDPNC KVKKSLHGH PRDCLFYLRD WTAARLQKLL QDNNVMFNT PPAGTRAVPG
GGCRVMEQKE VHSGFRDEAC GKETPPGYAG LCQAHYKEYL VSLINAHSLD PATLYEVEEL
ETATIRYLHL APQPADGEDL PAYQARLLQK LREEVPLGQS IARRRK **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

RNF31

Alternative Name:

Rnf31 ([RNF31 Products](#))

Background:

E3 ubiquitin-protein ligase RNF31 (EC 2.3.2.31) (HOIL-1-interacting protein) (HOIP) (Putative Ariadne-like ubiquitin ligase) (PAUL) (RING finger protein 31) (RING-type E3 ubiquitin transferase RNF31),FUNCTION: E3 ubiquitin-protein ligase component of the LUBAC complex

Target Details

which conjugates linear ('Met-1'-linked) polyubiquitin chains to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation (PubMed:28701375). LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways (By similarity). Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation (PubMed:28701375). LUBAC is recruited to the TNF-R1 signaling complex (TNF-RSC) following polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear polyubiquitin to IKBKG and possibly other components contributing to the stability of the complex (By similarity). The LUBAC complex is also involved in innate immunity by conjugating linear polyubiquitin chains at the surface of bacteria invading the cytosol to form the ubiquitin coat surrounding bacteria (By similarity). LUBAC is not able to initiate formation of the bacterial ubiquitin coat, and can only promote formation of linear polyubiquitins on pre-existing ubiquitin (By similarity). Recruited to the surface of bacteria by RNF213, which initiates the bacterial ubiquitin coat (By similarity). The bacterial ubiquitin coat acts as an 'eat-me' signal for xenophagy and promotes NF-kappa-B activation (By similarity). Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis (By similarity). RNF31 is required for linear ubiquitination of BCL10, thereby promoting TCR-induced NF-kappa-B activation (By similarity). Binds polyubiquitin of different linkage types (By similarity). {ECO:0000250|UniProtKB:Q96EP0, ECO:0000269|PubMed:28701375}.

Molecular Weight:	119.3 kDa
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UniProt:	Q924T7
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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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Restrictions:	For Research Use only
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Handling

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

Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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