

Datasheet for ABIN7555248
RNF31 Protein (AA 1-1072) (His tag)



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Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | RNF31 |
| Protein Characteristics: | AA 1-1072 |
| Origin: | Human |
| 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

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|-----------|---|
| Purpose: | Custom-made recombinat RNF31 Protein expressed in mammalian cells. |
| Sequence: | MPGEEEEERAF LVAREELASA LRRDSGQAFS LEQLRPLLAS SLPLAARYLQ LDAARLVRCN AHGEPNRYLN TLSTALNILE KYGRNLLSPQ RPRYWRGVKF NNPVFRSTVD AVQGGRDVLR LYGYTEEQPD GLSFPEGQEE PDEHQVATVT LEVLLLRTTEL SLLLQNTNHPR QQALEQLLED KVEDDMLQLS EFDPLLREIA PGPLTTPSVP GSTPGPCFLC GSAPGTLHCP SCKQALCPAC DHLFHGHPSR AHHLRQTLPG VLQGTHLSPS LPASAQPRPQ STSLLALGDS SLSSPNPASA HLPWHCAACA MLNEPWAVLC VACDRPRGCK GLGLGTEGPQ GTGGLEPDLA RGRWACQSCT FENEAHAVLC SICERPRLAQ PPSLVVDSRD AGICLQPLQQ GDALLASAQS QVWYCIHCTF CNSSPGWVCV MCNRTSSPIP AQHAPRPYAS SLEKGPCKPG PRRRLSAPLP SSCGDPEKQR QDKMREEGLQ LVSMIREGEA AGACPEEIFS ALQYSGTEVP LQWLRESELY VLEMVAELAG QQDPGLGAFS CQEARRAWLD RHGNLDEAVE ECVRTRRRKV QELQSLGFPG EEGSLQALFQ HGGDVSRALELQQRLEPF RQRLWDSGPE PTPSWDGPDK QSLVRRLLAV YALPSWGRAE |

Product Details

LALSLQLQETP RNYELGDVVE AVRHSQDRAF LRLLAQECA VCGWALPHNR MQALTSCECT
ICPDCFRQHF TIALKEKHIT DMVCPACGRP DLTDDTQLLS YFSTLDIQLR ESLEPDAYAL
FHKKLTEGVL MRDPKFLWCA QCSFGFIYER EQLEATCPQC HQTFCVRCKR QWEEQHRGRS
CEDFQNWKRM NDPEYQAQGL AMYLQENGID CPKCKFSYAL ARGGCMHFHC TQCRHQFCSG
CYNAFYAKNK CPEPNCRVKK SLHGHHPRDC LFYLRDWTAL RLQKLLQDNN VMFNTEPPAG
ARAVPGGGCR VIEQKEVPNG LRDEACGKET PAGYAGLCQA HYKEYLVSLI NAHSLDPATL
YEVEELETAT ERYLHVRPQP LAGEDPPAYQ ARLLQKLTEE VPLGQSIPRR RK **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) (RING finger protein 31) (RING-type E3 ubiquitin transferase RNF31) (Zinc in-between-RING-finger ubiquitin-associated domain protein),FUNCTION: E3 ubiquitin-protein ligase component of the LUBAC

Target Details

complex 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:17006537, PubMed:19136968, PubMed:20005846, PubMed:21455173, PubMed:21455180, PubMed:21455181, PubMed:22863777, PubMed:28481331, PubMed:28189684). LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways (PubMed:17006537, PubMed:19136968, PubMed:20005846, PubMed:21455173, PubMed:21455180, PubMed:21455181, PubMed:22863777, PubMed:28189684). Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation (PubMed:21455173, PubMed:28189684). 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 (PubMed:20005846, PubMed:27458237). 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 (PubMed:28481331, PubMed:34012115). LUBAC is not able to initiate formation of the bacterial ubiquitin coat, and can only promote formation of linear polyubiquitins on pre-existing ubiquitin (PubMed:28481331). Recruited to the surface of bacteria by RNF213, which initiates the bacterial ubiquitin coat (PubMed:34012115). The bacterial ubiquitin coat acts as an 'eat-me' signal for xenophagy and promotes NF-kappa-B activation (PubMed:28481331, PubMed:34012115). Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis (PubMed:23708998). RNF31 is required for linear ubiquitination of BCL10, thereby promoting TCR-induced NF-kappa-B activation (PubMed:27777308). Binds polyubiquitin of different linkage types (PubMed:23708998). {ECO:0000269|PubMed:17006537, ECO:0000269|PubMed:19136968, ECO:0000269|PubMed:20005846, ECO:0000269|PubMed:21455173, ECO:0000269|PubMed:21455180, ECO:0000269|PubMed:21455181, ECO:0000269|PubMed:22863777, ECO:0000269|PubMed:23708998, ECO:0000269|PubMed:27458237, ECO:0000269|PubMed:27777308, ECO:0000269|PubMed:28189684, ECO:0000269|PubMed:28481331, ECO:0000269|PubMed:34012115}.

Molecular Weight: 119.7 kDa

UniProt: [Q96EP0](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies

Application Details

as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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
