

Datasheet for ABIN7563805
RNF20 Protein (AA 1-973) (His tag)



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Overview

Quantity:	1 mg
Target:	RNF20
Protein Characteristics:	AA 1-973
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF20 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Rnf20 Protein expressed in mammalian cells.
Sequence:	<p>MSGIGNKRAA GEPGTSMPPE KKTAVEDSGT TVETIKLGGV SSTEELDIRT LQSKNRKLAE MLDQRQAIED ELREHIEKLE RRQATDDASL LIVNRYWSQF DENIRIILKR YDLDQGLGDL LTERKALVVP EPEPDSDSNQ ERKDDRERGD GQEPAFSFLA TLASSSSEEM ESQIQERVES SRRAVSQIVT VYDKLQEKVD LLSRKLNSGD NLIVEEAVQE LNSFLAQENV RLQELTDLLQ EKHHTMSQEF CKLQGVETA ESRVSVLESM IDDLQWDIDK IRKREQRLNR HLAEVLERNV SKGYKVYAG SSLYGGTITI NARKFEEMNA ELEENKELAQ NRHCELEKLR QDFEETTQN EKLKVELRSA VEEVVKETPE YRCMQSQFSV LYNESLQLKA HLDEARTLLH GTRGTHQRQV ELIERDEVSL HKKLRTEVIQ LEDTLAQRK EYEMLRIFE QTLAANEQAG PINREMRHLI SSLQNHNHQL KGEVLRKRYKRK LREAQSDLNK TRLRSGSALL QSQSSTEDPK DEPTKQDS EDLATHSSAL KASQEDEVKS KRDEEERERE RREKERERER EREKEKERER EKQKLKESEK ERDSVKDKEK GKHDDGRKKE AEIHKQLKIE LKKAQESQKE MKLLLDMYRS APKEQRDKVQ LMAAEKSKA ELEDLRQLK DLEDKEKKN KMADEDALR KIRAVEEQIE YLQKKLAMAK</p>

Product Details

QEEALLSEM DVTGQAFEDM QEQNIRLMQQ LREKDDANFK LMSERIKSNQ IHKLLKEEKE
ELADQVLTlk TQVDAQLQVV RkLEEKEHLL QSNIGTGEKE LGLRTQALEM NKRKAMEAAQ
LADDLKAQLE LAQKKLHDFQ DEIVENSVTK EKDLFNFKRA QEDISRLRRK LETTKKPDNV
PKCDEILMEE IKDYKARLTC PCCNMRKKDA VLTkCFHVFC FECVKTRYDT RQRKCPKCNA
AFGANDFHRI YIG **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: RNF20

Alternative Name: Rnf20 ([RNF20 Products](#))

Background: E3 ubiquitin-protein ligase BRE1A (BRE1-A) (EC 2.3.2.27) (RING finger protein 20) (RING-type E3 ubiquitin transferase BRE1A),FUNCTION: Component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1) (PubMed:28453857). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation

Target Details

and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation (H3K4me and H3K79me, respectively). It thereby plays a central role in histone code and gene regulation. The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B, reports about the cooperation with UBE2E1/UBCH are contradictory. Required for transcriptional activation of Hox genes. Recruited to the MDM2 promoter, probably by being recruited by p53/TP53, and thereby acts as a transcriptional coactivator. Mediates the polyubiquitination of PA2G4 leading to its proteasome-mediated degradation. {ECO:0000250|UniProtKB:Q5VTR2, ECO:0000269|PubMed:28453857}.

Molecular Weight: 113.5 kDa

UniProt: [Q5DTM8](#)

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.

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