

Datasheet for ABIN3135178
RNF20 Protein (AA 1-973) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	RNF20
Protein Characteristics:	AA 1-973
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF20 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MSGIGNKRAA GEPGTSMPPE KKTAVEDSGT TVETIKLGGV SSTEELDIRT LQSKNRKLAE MLDQRQAIED ELREHIEKLE RRQATDDASL LIVNRYWSQF DENIRIILKR YDLDDQGLGDL LTERKALVVP EPEPDSDSNQ ERKDDRERGD GQEPAFSFLA TLASSSSEEM ESQQLQERVES SRRAVSQIVT VYDKLQEKVD LLSRKLNSGD NLIVEEAVQE LNSFLAQENV RLQELTDLLQ EKHHTMSQEF CKLQGKVETA ESRVSVLESM IDDLQWDIDK IRKREQRLNR HLAEVLERNV SKGYKVYAG SSLYGGTITI NARKFEEMNA ELEENKELAQ NRHCELEKLR QDFEEVTTQN EKLKVELRSA VEEVVKETPE YRCMQSQFSV LYNESLQLKA HLDEARTLLH GTRGTHQRQV ELIERDEVSL HKKLRTVEIQ LEDTLAQVRK EYEMLRIEFE QTLAANEQAG PINREMRHLI SSLQNHNNHQL KGEVLRYSKRK LREAQSDLNK TRLRSGSALL QSQSSTEDPK DEPTCLKQDS EDLATHSSAL KASQEDEVKS KRDEEERERE RREKERERER EREKEKERER EKQKLKESEK ERDSVKDKEK GKHDGGRKKE AEIHKQLKIE LKKAQESQKE MKLLLDMYRS APKEQRDKVQ LMAAEKKSKA ELEDLRQLK DLEDKEKKEN KKMADEDALR KIRAVEEQIE YLQKKLAMAK
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QEEALLSEM DVTGQAFEDM QEQNIRLMQQ LREKDDANFK LMSEKISNQ IHKLLKEEKE
ELADQVLTkLk TQVDAQLQVV RKLEEKEHLL QSNIGTGEKE LGLRTQALEM NKRKAMEAAQ
LADDLKAQLE LAQKKLHDFQ DEIVENSVK EKDLNFNFKRA QEDISRLRRK LETTKKPDNV
PKCDEILMEE IKDYKARLTC PCCNMRKKDA VLTkCFHVFC FECVKTRYDT RQRKCPKCNA
AFGANDFHRI YIG

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Rnf20 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Product Details

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	RNF20
Alternative Name:	Rnf20 (RNF20 Products)
Background:	<p>Component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation 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}.</p>
Molecular Weight:	114.5 kDa Including tag.
UniProt:	Q5DTM8

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.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process