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RBX1 Protein (AA 2-108) (His tag)



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Quantity:	1 mg
Target:	RBX1
Protein Characteristics:	AA 2-108
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBX1 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)
Product Details	
Sequence:	AAAMDVDTPS GTNSGAGKKR FEVKKWNAVA LWAWDIVVDN CAICRNHIMD LCIECQANQA
	SATSEECTVA WGVCNHAFHF HCISRWLKTR QVCPLDNREW EFQKYGH
	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. Human RBX1 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

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 receival 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.

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:	RBX1
Alternative Name:	RBX1 (RBX1 Products)
Background:	E3 ubiquitin ligase component of multiple cullin-RING-based E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins, including proteins involved in cell cycle progression, signal transduction, transcription and transcription-coupled nucleotide excision repair. The functional specificity of
	the E3 ubiquitin-protein ligase complexes depends on the variable substrate recognition

	components. As a component of the CSA complex promotes the ubiquitination of ERCC6
	resulting in proteasomal degradation. Through the RING-type zinc finger, seems to recruit the
	E2 ubiquitination enzyme, like CDC34, to the complex and brings it into close proximity to the
	substrate. Probably also stimulates CDC34 autoubiquitination. May be required for histone H3
	and histone H4 ubiquitination in response to ultraviolet and for subsequent DNA repair.
	Promotes the neddylation of CUL1, CUL2, CUL4 and CUL4 via its interaction with UBE2M.
	Involved in the ubiquitination of KEAP1, ENC1 and KLHL41. In concert with ATF2 and CUL3,
	promotes degradation of KAT5 thereby attenuating its ability to acetylate and activate ATM.
	{ECO:0000269 PubMed:10579999, ECO:0000269 PubMed:11027288,
	ECO:0000269 PubMed:15983046, ECO:0000269 PubMed:16678110,
	ECO:0000269 PubMed:16751180, ECO:0000269 PubMed:18397884,
	ECO:0000269 PubMed:19112177, ECO:0000269 PubMed:19679664}.
ar Weight:	13.1 kDa Including tag.

Molecular Weight:	13.1 kDa Including tag.
UniProt:	P62877
Pathways:	Cell Division Cycle, M Phase, SARS-CoV-2 Protein Interactome

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 gurantee
	though.
Comment:	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

Restrictions: For Research Use only

receive your protein of interest.

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

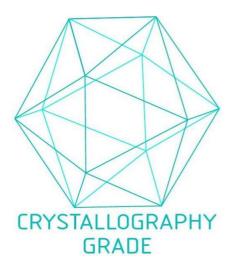


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process