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RBX1 Protein (AA 1-108) (Strep Tag)





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Overview	
Quantity:	1 mg
Target:	RBX1
Protein Characteristics:	AA 1-108
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBX1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)
Product Details	
Sequence:	MAAAMDVDTP SGTNSGAGKK RFEVKKWNAV ALWAWDIVVD NCAICRNHIM DLCIECQANQ

Sequence:	MAAAMDVDTP SGTNSGAGKK RFEVKKWNAV ALWAWDIVVD NCAICRNHIM DLCIECQANQ
	ASATSEECTV AWGVCNHAFH FHCISRWLKT RQVCPLDNRE WEFQKYGH

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):		
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.		
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)		
Grade:	Crystallography grade		

Target Details

Alternative Name: Background:	RBX1 (RBX1 Products) E3 ubiquitin-protein ligase RBX1 (EC 2.3.2.27) (EC 2.3.2.32) (E3 ubiquitin-protein transferase RBX1) (Protein ZYP) (RING finger protein 75) (RING-box protein 1) (Rbx1) (Regulator of cullins 1) (ROC1) [Cleaved into: E3 ubiquitin-protein ligase RBX1, N-terminally processed (E3 ubiquitin-protein transferase RBX1, N-terminally processed)],FUNCTION: E3 ubiquitin ligase component of multiple cullin-RING-based E3 ubiquitin-protein ligase (CRLs) 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 (PubMed:10230407, PubMed:10579999, PubMed:15983046, PubMed:16678110, PubMed:19112177, PubMed:19679664, PubMed:23455478, PubMed:27565346, PubMed:29769719, PubMed:11961546, PubMed:22748924). CRLs complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins, ARIH mediating addition of the first ubiquitin on CRLs targets (PubMed:27565346). The functional
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	The dating addition of the first abiquitin on ones targets (Fabrica.27 303040). The falletional
	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. Recruits the E2 ubiquitin-conjugating enzyme
	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. As part of a
	multisubunit complex composed of elongin BC complex (ELOB and ELOC), elongin A/ELOA,
	RBX1 and CUL5, polyubiquitinates monoubiquitinated POLR2A (PubMed:19920177).
	{ECO:0000269 PubMed:10230407, ECO:0000269 PubMed:10579999,
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Molecular Weight:	12.3 kDa

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Target Details

rarget Details		
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 guarantee though.	
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	



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