Datasheet for ABIN7555202

RFWD2 Protein (AA 1-731) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	RFWD2
Protein Characteristics:	AA 1-731
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RFWD2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant COP1 Protein expressed in mammalian cells.
Sequence:	MSGSRQAGSG SAGTSPGSSA ASSVTSASSS LSSSPSPPSV AVSAAALVSG GVAQAAGSGG LGGPVRPVLV APAVSGSGGG AVSTGLSRHS CAARPSAGVG GSSSSLGSGS RKRPLLAPLC NGLINSYEDK SNDFVCPICF DMIEEAYMTK CGHSFCYKCI HQSLEDNNRC PKCNYVVDNI DHLYPNFLVN ELILKQKQRF EEKRFKLDHS VSSTNGHRWQ IFQDWLGTDQ DNLDLANVNL MLELLVQKKK QLEAESHAAQ LQILMEFLKV ARRNKREQLE QIQKELSVLE EDIKRVEEMS GLYSPVSEDS TVPQFEAPSP SHSSIIDSTE YSQPPGFSGS SQTKKQPWYN STLASRRKRL TAHFEDLEQC YFSTRMSRIS DDSRTASQLD EFQECLSKFT RYNSVRPLAT LSYASDLYNG SSIVSSIEFD RDCDYFAIAG VTKKIKVYEY DTVIQDAVDI HYPENEMTCN SKISCISWSS YHKNLLASSD YEGTVILWDG FTGQRSKVYQ EHEKRCWSVD FNLMDPKLLA SGSDDAKVKL WSTNLDNSVA SIEAKANVCC VKFSPSSRYH LAFGCADHCV HYYDLRNTKQ PIMVFKGHRK AVSYAKFVSG EEIVSASTDS QLKLWNVGKP YCLRSFKGHI NEKNFVGLAS NGDYIACGSE NNSLYLYYKG LSKTLLTFKF DTVKSVLDKD RKEDDTNEFV SAVCWRALPD GESNVLIAAN

Product Details

	SQGTIKVLEL V **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:	RFWD2
Alternative Name:	COP1 (RFWD2 Products)
Background:	E3 ubiquitin-protein ligase COP1 (EC 2.3.2.27) (Constitutive photomorphogenesis protein 1 homolog) (hCOP1) (RING finger and WD repeat domain protein 2) (RING finger protein 200) (RING-type E3 ubiquitin transferase RFWD2),FUNCTION: E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Involved in JUN ubiquitination and degradation. Directly involved in p53 (TP53) ubiquitination and degradation, thereby abolishing p53-dependent transcription and apoptosis. Ubiquitinates p53 independently

Target Details

	of MDM2 or RCHY1. Probably mediates E3 ubiquitin ligase activity by functioning as the essential RING domain subunit of larger E3 complexes. In contrast, it does not constitute the catalytic RING subunit in the DCX DET1-COP1 complex that negatively regulates JUN, the ubiquitin ligase activity being mediated by RBX1. Involved in 14-3-3 protein sigma/SFN ubiquitination and proteasomal degradation, leading to AKT activation and promotion of cell survival. Ubiquitinates MTA1 leading to its proteasomal degradation. Upon binding to TRIB1, ubiquitinates CEBPA, which lacks a canonical COP1-binding motif (Probable). {ECO:0000269|PubMed:12466024, ECO:0000269|PubMed:12615916, ECO:0000269|PubMed:14739464, ECO:0000269|PubMed:15103385, ECO:0000269|PubMed:19805145, ECO:0000269|PubMed:19837670, ECO:0000269|PubMed:21625211, ECO:0000303|PubMed:27041596}.
Molecular Weight:	80.5 kDa
UniProt:	Q8NHY2
Pathways:	Photoperiodism

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

