

## Product datasheet for **TP311483M**

### **COP1 (RFWD2) (NM\_001001740) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human ring finger and WD repeat domain 2 (RFWD2), transcript variant 2, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC211483 representing NM_001001740 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSGSRQAGSGSAGTSPGSSAASSVTSASSSLSSSPSPPSVAVSAAALVSGGVAQAAGSGGLGGPVRPVLV  
APAVSGSGGGAVSTGLSRHSCAARPSAGVGGSSSLGSGSRKRPLLAPLCNGLINSYEDKSNDFVCPICF  
DMIEEAYMTKCGHSFCYKCIHQSLDNNRCPKCNVVDNIDHLYPNFLVNELILKQKQRFEEKRFLDHS  
NGHRWQIFQDWLGTQDNLDLANVNLMLELLVQKKKQLEAESHAAQLQILMEFLKVARRNKREEMSGLYS  
PVSEDSTVPQFEAPSPSHSSIIDSTEYSQPPGFSGSSQTKKQPWYNSTLASRRKRLTAHFEDLEQCYFST  
RMSRISDDSRASQLDEFQECLSKFTRYNSVRPLATLSYASDLYNGSSIVSSIEFDRDCDYFAIAGVTKK  
IKVYEYDTVIQDAVDIHYPENEMTCNSKISCISWSSYHKNLLASSDYEGTVILWDGFTGQRSKVYQEHEK  
RCWSVDFNLMDPKLLASGSDDAKVKLWSTNLDNSVASIEAKANVCCVKFSPSSRYHLAFGCADHCVHYYD  
LRNTKQPIMVFKGHRKAVSYAKFVSGEEIVSASTDSQLKLWNVGKPYCLRSFKGHINEKNFVGLASNGDY  
IACGSENNSLYLYKGLSKTLLTFKFDTVKSVLDKDRKEDDTNEFVSAVCWRALPDGESNVLIAANSQGT  
IKVLELV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

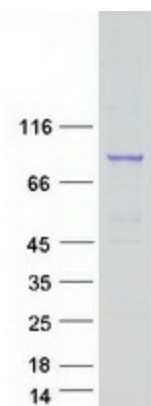
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	77.5 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001001740</a>
<b>Locus ID:</b>	64326
<b>UniProt ID:</b>	<a href="#">Q8NHY2</a>
<b>RefSeq Size:</b>	2729
<b>Cytogenetics:</b>	1q25.1-q25.2
<b>RefSeq ORF:</b>	2121
<b>Synonyms:</b>	CFAP78; FAP78; RFWD2; RNF200
<b>Summary:</b>	<p>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 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). [UniProtKB/Swiss-Prot Function]</p>
<b>Protein Pathways:</b>	p53 signaling pathway, Ubiquitin mediated proteolysis

### Product images:



Coomassie blue staining of purified COP1 protein (Cat# [TP311483]). The protein was produced from HEK293T cells transfected with COP1 cDNA clone (Cat# [RC211483]) using MegaTran 2.0 (Cat# [TT210002]).