

## Product datasheet for PH310492

### COP1 (RFWD2) (NM\_022457) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	RFWD2 MS Standard C13 and N15-labeled recombinant protein (NP_071902)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210492
Predicted MW:	80.5 kDa
Protein Sequence:	>RC210492 protein sequence Red=Cloning site Green=Tags(s)

MSGSRQAGSGSAGTSPGSSAASSVTSASSSLSSSPSPSVAVSAALVSGGVAQAAGSGGLGGPVRPVLV  
APAVSGSGGAVSTGLSRHSCAARPSAGVGGSSSLGSGSRKRPLLAPLCNGLINSYEDKSNDFVCPICF  
DMIEEAYMTKCGHSFCYKCIHQSLDNNRCPKCNVVDNIDHLYPNFLVNELILKQKQRFEEKRFKLDHS  
VSSTNGHRWQIFQDWLGTQDNLDLANVNLMLLELLVQKKKQLEAESHAALQILMEFLKVARRNKREQLE  
QIQKELSVLEEDIKRVEEMSGLYSPVSEDSTVPQFEAPSPSHSSIIDSTEYSQPPGFSGSSQTKKQPWYN  
STLASRRKRLTAHFEDLEQCYFSTRMSRISDDSRASQLDEFQECLSKFTRYNSVRPLATLSYASDLVNG  
SSIVSSIEFDRDCDYFAIAGVTKKIKVYEYDVIQDAVDIHYPENEMTCSKISCSISWSSYHKNLLASSD  
YEGTVILWDGFTGQRSKVYQEHEKRCWSVDFNLMDPKLLASGDDAKVKLWSTNLDNSVASIEAKANVCC  
VKFSPSSRYHLAFGCADHCVHYDLRNTKQPI MVFKGHRKAVSYAKFVSGEEIVSASTDSQLKLWNVGKP  
YCLRSFKGHINEKNFVGLASNGDYIACGSENNSLYLYYKGLSKTLLTFKFDTVKSVLDDKDRKEDDNEFV  
SAVCWRALPDGESNVLIAANSQGTIKVLELV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_071902</a></u>



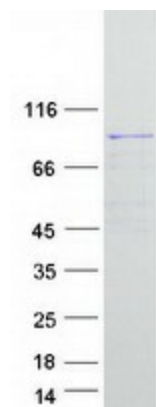
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RefSeq Size:	2806
RefSeq ORF:	2193
Synonyms:	CFAP78; FAP78; RFWD2; RNF200
Locus ID:	64326
UniProt ID:	<a href="#">Q8NHY2</a>
Cytogenetics:	1q25.1-q25.2

**Summary:** 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]

**Protein Pathways:** p53 signaling pathway, Ubiquitin mediated proteolysis

### Product images:



Coomassie blue staining of purified COP1 protein (Cat# [TP310492]). The protein was produced from HEK293T cells transfected with COP1 cDNA clone (Cat# [RC210492]) using MegaTran 2.0 (Cat# [TT210002]).