

## Recombinant Mouse Cop1 Protein, Myc/DDK-tagged

Cat. No. Cop1-2256M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length COP1, E3 ubiquitin ligase (Cop1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</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.</p>
<b>Molecular Mass</b>	80.9 kDa

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<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>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Cop1 COP1, E3 ubiquitin ligase [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Cop1</a>
<b>Synonyms</b>	Cop1; COP1, E3 ubiquitin ligase; Co; Rfwd; Rfwd2; C80879; AI316802; E3 ubiquitin-protein ligase COP1; E3 ubiquitin-protein ligase RFWD2; RING finger and WD repeat domain protein 2; RING-type E3 ubiquitin transferase RFWD2; constitutive photomorphogenesis protein 1 homolog; constitutive photomorphogenic protein 1; mCOP1; ring finger and WD repeat domain 2; EC 2.3.2.27
<b>Gene ID</b>	<a href="#">26374</a>
<b>mRNA Refseq</b>	<a href="#">NM_011931</a>
<b>Protein Refseq</b>	<a href="#">NP_036061</a>
<b>UniProt ID</b>	<a href="#">Q9R1A8</a>

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