

Recombinant Mouse Cop1 Protein, Myc/DDK-tagged

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

SPECIFICATION

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

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Cop1 COP1, E3 ubiquitin ligase [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cop1
Synonyms	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
Gene ID	26374
mRNA Refseq	NM_011931
Protein Refseq	NP_036061
UniProt ID	Q9R1A8

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