

## COP1 (phospho Ser387) rabbit pAb

## Cat No.:ES7161

For research use only

## Overview

Product Name	COP1 (phospho Ser387) rabbit pAb	
Host species	Rabbit	
Applications	WB;ELISA	
Species Cross-Reactivity	Human; Mouse	
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not	
	yet tested in other applications.	
Immunogen	The antiserum was produced against synthesized	
	peptide derived from human RFWD2 around the	
	phosphorylation site of Ser387. AA range:353-402	
Specificity	Phospho-COP1 (S387) Polyclonal Antibody detects	
. ,	endogenous levels of COP1 protein only when	
	phosphorylated at \$387.	
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and	
	0.02% sodium azide.	
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.	
Protein Name	E3 ubiquitin-protein ligase RFWD2	
Gene Name	RFWD2	
Cellular localization	Nucleus speckle. Cytoplasm. In the nucleus, it forms	
	nuclear speckles.	
Purification	The antibody was affinity-purified from rabbit	
	antiserum by affinity-chromatography using	
	epitope-specific immunogen.	
Clonality	Polyclonal	
Concentration	1 mg/ml	
Observed band	100kD	
Human Gene ID	64326	
Human Swiss-Prot Number	Q8NHY2	
Alternative Names	RFWD2; COP1; RNF200; E3 ubiquitin-protein ligase	
	RFWD2; Constitutive photomorphogenesis protein 1	
	homolog; hCOP1; RING finger and WD repeat	
	domain protein 2; RING finger protein 200	
Background	domain:The RING finger domain, in addition to its	
	role in ubiquitination, functions as a structural	



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scaffold to bring two clusters of positive-charged residues within spatial proximity to mimic a bipartite nuclear localization signal (NLS)., 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 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., induction: By p53/TP53., pathway: Protein modification; protein

ubiquitination., similarity: Belongs to the COP1 family., similarity: Contains 1 RING-type zinc finger., similarity: Contains 7 WD repeats., subcellular location: In the nucleus, it forms nuclear speckles., subunit: Homodimer. Homodimerization is mediated by the coiled coil domain. Component of the DCX DET1-COP1 ubiquitin ligase complex at least composed of RBX1, DET1, DDB1, CUL4A and COP1. Isoform 2 does not interact with CUL4A but still binds to RBX1, suggesting that the interaction may be mediated by another culllin protein. Isoform 1 and isoform 2 interact with CUL5 but not with CUL1, CUL2 not CUL3. Interacts with bZIP transcription factors JUN, JUNB and JUND but not with FOS, ATF2 nor XBP1. Interacts with p53 (TP53).,tissue specificity: Ubiquitously expressed at low level. Expressed at higher level in testis, placenta, skeletal muscle and heart.,



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Western blot analysis of lysates from K562 cells treated with UV 15', using RFWD2 (Phospho-Ser387) Antibody. The lane on the right is blocked with the phospho peptide.



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