BT LAB
Bioassay Technology Laboratory
Optimize Your Research

COP1(Phospho Ser387) Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP07999
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human RFWD2 around the phosphorylation site of Ser387. AA range:353-402
Mol wt	80474
Species reactivity	Human, Mouse
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	E3 ubiquitin-protein ligase RFWD2
Synonyms	E3 ubiquitin-protein ligase RFWD2; 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

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The RING finger domain, in addition to its role in ubiquitination, functions as a structural scaffold to bring two clusters of positive-charged residues within spatial proximity to mimic a bipartite nuclear localization signal (NLS).,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.,Belongs to the COP1 family.,Contains 1 RING-type zinc finger.,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.,

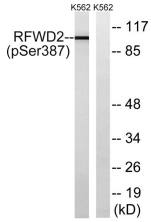
Recommended Dilution

WB: 1: 500 - 1: 2000

ELISA: 1: 5000

Not yet tested in other applications.

Images



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.

Storage

-20°C for 1 year

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