

COP1 (Phospho Ser387) Rabbit pAb

CatalogNo: YP0477 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, ELISA

MW

- 100kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

ELISA 1:5000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

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 S387. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):TAsQL

| Target Information

Gene name RFWD2

Protein Name E3 ubiquitin-protein ligase RFWD2

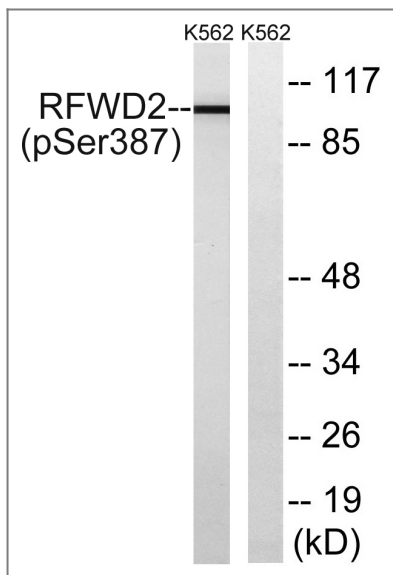
Organism	Gene ID	UniProt ID
Human	64326;	Q8NHY2;
Mouse	26374;	Q9R1A8;

Cellular Localization Nucleus speckle. Cytoplasm. In the nucleus , it forms nuclear speckles.

Tissue specificity Ubiquitously expressed at low level. Expressed at higher level in testis , placenta , skeletal muscle and heart.

Function Domain: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) . ,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 cullin 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. ,

| Validation Data



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.

Contact information

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COP1 (Phospho Ser387) Rabbit pAb

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