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AP46009PU-N Polyclonal Antibody to RFWD2 / RNF200 (Center) - Aff - Purified

Alternate names: COP1, Constitutive photomorphogenesis protein 1 homolog, E3 ubiquitin-protein ligase RFWD2, RING finger and WD repeat domain protein 2, RING finger protein 200

Quantity: 0.1 ml

Background: Rfwd2 is an 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. It is involved in JUN ubiquitination and degradation and directly involved in p53 (TP53) ubiquitination and degradation, thereby abolishing p53-dependent transcription and apoptosis. Ubiquitinates p53 independently of MDM2 or RCHY1. Rfwd2 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.

Uniprot ID: Q9R1A8

NCBI: NM_011931

GeneID: 26374

Host: Rabbit

Immunogen: Synthetic peptide corresponding to a middle region of mouse
AA Sequence:
MSGLYSPVSEDSTVPQFEAPSPSHSSIIDSTEYSQPPGFSGTSQTKKQPW

Format: **State:** Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purification: Immunoaffinity column

Applications: Western blotting (0.2 - 1 µg/ml).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: RFWD2: 80 kDa

Species Reactivity: **Tested:** Human, mouse.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Evidence for functional conservation of a mammalian homologue of the light-responsive plant protein COP1." Wang H., Kang D., Deng X.-W., Wei N. Curr. Biol. 9:711-714(1999) [PubMed: 10395541] [Abstract]

Pictures:

Mouse Thymus; WB Suggested Anti-Rfwd2 Antibody. . Titration: 1.0 ug/ml. . Positive Control: Mouse Thymus; Rfwd2 antibody - middle region (AP46009PU-N) in Mouse Thymus cells using Western Blot