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RFWD2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19933b

Product Information

Application	WB, E
Primary Accession	Q8NHY2
Other Accession	Q9R1A8, NP_071902.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41831
Calculated MW	80474
Antigen Region	672-701

Additional Information

Gene ID	64326
Other Names	E3 ubiquitin-protein ligase RFWD2, 632-, Constitutive photomorphogenesis protein 1 homolog, hCOP1, RING finger and WD repeat domain protein 2, RING finger protein 200, RFWD2, COP1, RNF200
Target/Specificity	This RFWD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 672-701 amino acids from the C-terminal region of human RFWD2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RFWD2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	COP1 (HGNC:17440)
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. 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 (Probable).
Cellular Location	Nucleus speckle. Cytoplasm. Note=In the nucleus, it forms nuclear speckles
Tissue Location	Ubiquitously expressed at low level. Expressed at higher level in testis, placenta, skeletal muscle and heart

Background

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.

References

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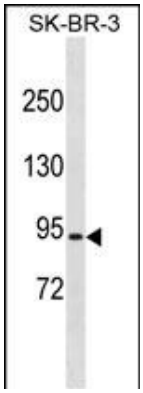
Li, D.Q., et al. Proc. Natl. Acad. Sci. U.S.A. 106(41):17493-17498(2009)
Kato, S., et al. J. Biol. Chem. 283(51):35464-35473(2008)

Images



RFWD2 Antibody (C-term) (Cat. #AP19933b) western blot analysis in SK-BR-3 cell line lysates (35ug/lane).This demonstrates the RFWD2 antibody detected the RFWD2 protein (arrow).