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RFWD2 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP19933b

Specification

RFWD2 Blocking Peptide (C-term) - Product Information

Primary Accession	Q8NHY2
Other Accession	Q9R1A8, NP_071902.2

RFWD2 Blocking Peptide (C-term) - 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
The synthetic peptide sequence is selected from aa 687-701 of HUMAN RFWD2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RFWD2 Blocking Peptide (C-term) - 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

RFWD2 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

RFWD2 Blocking Peptide (C-term) - Images

RFWD2 Blocking Peptide (C-term) - Background

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RFWD2 Blocking Peptide (C-term) - References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Kinyo, A., et al. J. Invest. Dermatol. 130(2):541-545(2010)
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)