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RNF7 Blocking Peptide (N-term)

Synthetic peptide
Catalog # BP21564a

Specification

RNF7 Blocking Peptide (N-term) - Product Information

Primary Accession O9UBF6

RNF7 Blocking Peptide (N-term) - Additional Information

Gene ID 9616

Other Names
RING-box protein 2, Rbx2, CKII beta-binding protein 1, CKBBP1, RING finger protein 7, Regulator of cullins 2, Sensitive to apoptosis gene protein, RNF7, RBX2, ROC2, SAG

Target/Specificity
The synthetic peptide sequence is selected from aa 25-37 of HUMAN RNF7

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.

RNF7 Blocking Peptide (N-term) - Protein Information

Name RNF7

Synonyms RBX2, ROC2, SAG

Function
Probable component of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin

RNF7 Blocking Peptide (N-term) - Background

Probable component of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. Through the RING-type zinc finger, seems to recruit the E2 ubiquitination enzyme to the complex and brings it into close proximity to the substrate. Promotes the neddylation of CUL5 via its interaction with UBE2F. May play a role in protecting cells from apoptosis induced by redox agents.

RNF7 Blocking Peptide (N-term) - References

Son M.-Y.,et al.Biochem. Biophys. Res. Commun. 263:743-748(1999).
Ohta T.,et al.Mol. Cell 3:535-541(1999).
Duan H.,et al.Mol. Cell. Biol. 19:3145-3155(1999).
Swaroop M.,et al.DNA Cell Biol. 20:425-434(2001).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription (PubMed:10851089). CRLs complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins, ARIH1 mediating addition of the first ubiquitin on CRLs targets (By similarity). Through the RING- type zinc finger, seems to recruit the E2 ubiquitination enzyme to the complex and brings it into close proximity to the substrate. Promotes the neddylation of CUL5 via its interaction with UBE2F. May play a role in protecting cells from apoptosis induced by redox agents.

Cellular Location
Cytoplasm. Nucleus

Tissue Location
Expressed in heart, liver, skeletal muscle and pancreas. At very low levels expressed in brain, placenta and lung

RNF7 Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides