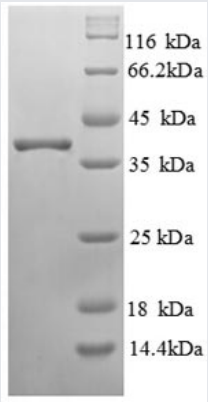
RING-Box Protein 2 (RNF7) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	RING-box protein 2 (RNF7), Recombinant Protein
Full Product Name	Recombinant Human RING-box protein 2
Product Gene Name	RNF7 recombinant protein
Product Synonym Names	CKII beta-binding protein 1; CKBBP1; RING finger protein 7; Regulator of cullins 2; Sensitive to apoptosis gene protein
Sequence	ADVEDGEETC ALASHSGSSG SKSGGDKMFS LKKWNAVAMW SWDVECDTCA ICRVQVMDAC LRCQAENKQE DCVVVWGECN HSFHNCCMSL WVKQNNRCPL CQQDWVVQRI GK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.
Molecular Weight	14.6 kDa
Sequence Positions	2-113aa; Full Length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	603863
3D Structure	ModBase 3D Structure for Q9UBF6
Product Categories/Family for RNF7 recombinant protein	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RNF7 recombinant protein	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, ses 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.
Product References and Citations for RNF7 recombinant protein	Protein kinase CKII interacts with and phosphorylates the SAG protein containing ring-H2 finger motif.Son M.-Y., Park J.-W., Kim Y.-S., Kang S.-W., Marshak D.R., Park W., Bae Y.-S.Biochem. Biophys. Res. Commun. 263:743-748(1999)
Other Notes	Small volumes of RNF7 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RNF7 purchase	MBS1265476 is a recombinant protein targeting RNF7. Also known as Recombinant Human RING-box protein 2. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of RNF7 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNF7. It may not necessarily be applicable to this product.

NCBI GI #	319004144
NCBI GeneID	9616
NCBI Accession #	NP_001188299.1
UniProt Primary Accession #	Q9UBF6
UniProt Secondary Accession #	Q9BXN8; Q9Y5M7; A8K1H9; A8MTB5; C9JYL3; D3DNF7; D3DNF8
UniProt Related Accession #	Q9UBF6
GenBank Nucleotide #	NM_001201370.1
NCBI Official Full Name	RING-box protein 2 isoform 4
NCBI Official Synonym Full Names	ring finger protein 7
NCBI Official Symbol	RNF7
NCBI Official Synonym Symbols	SAG; ROC2; CKBBP1
UniProt Protein Name	RING-box protein 2
UniProt Synonym Protein Names	CKII beta-binding protein 1; CKBBP1; RING finger protein 7; Regulator of cullins 2; Sensitive to apoptosis gene protein
Protein Family	RING-box protein
UniProt Gene Name	RNF7
UniProt Synonym Gene Names	RBX2; ROC2; SAG; Rbx2; CKBBP1
UniProt Entry Name	RBX2_HUMAN
NCBI Protein Information	RING-box protein 2
NCBI Summary for RNF7	The protein encoded by this gene is a highly conserved ring finger protein. It is an essential subunit of SKP1-cullin/CDC53-F box protein ubiquitin ligases, which are a part of the protein degradation machinery important for cell cycle progression and signal transduction. This protein interacts with, and is a substrate of, casein kinase II (CSNK2A1/CKII). The phosphorylation of this protein by CSNK2A1 has been shown to promote the degradation of IkappaBalpha (CHUK/IKK-alpha/IKBKA) and p27Kip1(CDKN1B). Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

UniProt Comments for RNF7	RNF7: a highly conserved ring finger protein. An essential subunit of SKP1-cullin/CDC53-F box protein ubiquitin ligases, which are a part of the protein degradation machinery important for cell cycle progression and signal transduction. The RING-type zinc finger recruits the E2 ubiquitination enzyme to the complex and brings it into close proximity to the substrate. This protein interacts with, and is a substrate of, casein kinase II (CKII). The phosphorylation of this protein by CKII has been shown to promote the degradation of IkappaB-alpha (CHUK/IKK-alpha/IKBKA) and p27Kip1(CDKN1B). Two alternatively spliced isoforms have been reported. Protein type: EC 6.3.2.-; Ligase; Motility/polarity/chemotaxis; Ubiquitin conjugating system; Ubiquitin ligase Chromosomal Location of Human Ortholog: 3q22-q24 Cellular Component: Cul2-RING ubiquitin ligase complex; Cul5-RING ubiquitin ligase complex; cytoplasm; nucleoplasm Molecular Function: copper ion binding; NEDD8 ligase activity; protein binding Biological Process: protein neddylation; protein ubiquitination during ubiquitin-dependent protein catabolic process; response to redox state; SCF-dependent proteasomal ubiquitin-dependent protein catabolic process
Research Articles on RNF7	**1.** These findings indicate that Rbx1 and Rbx2 can both activate Cul5-Vif E3 ligase in vitro, but they may undergo a more delicate selection mechanism in vivo.
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