E3 Ubiquitin-Protein Ligase RNF34 (RNF34) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	E3 ubiquitin-protein ligase RNF34 (RNF34), Recombinant Protein
Full Product Name	Recombinant Human E3 ubiquitin-protein ligase RNF34 (RNF34)
Product Gene Name	RNF34 recombinant protein
Product Synonym Gene Name	RNF34
Sequence	MKAGATSMWA SCCGLLNEVM GTGAVRGQQS AFAGATGPFR FTPNPEFSTY PPAATEGPNI VCKACGLSFS VFRKKHVCCD CKKDFCSVCS VLQENLRRCS TCHLLQETAF QRPQLMRLKV KDLRQYLILR NIPIDTCREK EDLVDLVLCH HGLGSEDDMD TSSLNSSRSQ TSSFFTRSFF SNYTAPSATM SSFQGELMDG DQTSRSGVPA QVQSEITSAN TEDDDDDDDE DDDDEEENAE DRNPGLSKER VRASLSDLSS LDDVEGMSVR QLKEILARNF VNYSGCCEKW ELVEKVNRLY KENEENQKSY GERLQLQDEE DDSLCRICMD AVIDCVLLEC GHMVTCTKCG KRMSECPICR QYVVRAVHVF KS
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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	41,797 Da
Sequence Positions	1-372, Full length protein
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	608299
3D Structure	ModBase 3D Structure for Q969K3
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RNF34 recombinant protein	This protein contains a RINF finger, a motif known to be involved in protein-protein and protein-DNA interactions. This protein interacts with DNAJA3 hTid-1, which is a DnaJ protein reported to function as a modulator of apoptosis. Overexpression of this gene in Hela cells was shown to confer the resistance to TNF-alpha induced apoptosis, suggesting an anti-apoptotic function of this protein. This protein can be cleaved by caspase-3 during the induction of apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been reported.
Other Notes	Small volumes of RNF34 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 RNF34 purchase	MBS1349526 is a recombinant protein targeting RNF34. Also known as Recombinant Human E3 ubiquitin-protein ligase RNF34 (RNF34). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNF34. It may not necessarily be applicable to this product.

NCBI GI #	378925642
NCBI GeneID	80196
NCBI Accession #	NP_001243787.1
UniProt Primary Accession #	Q969K3
UniProt Secondary Accession #	Q8NG47; Q9H6W8; B7Z933
UniProt Related Accession #	Q969K3
GenBank Nucleotide #	NM_001256858.1
NCBI Official Full Name	E3 ubiquitin-protein ligase RNF34 isoform 3
NCBI Official Synonym Full Names	ring finger protein 34
NCBI Official Symbol	RNF34
NCBI Official Synonym Symbols	RFI; RIF; RIFF; hRFI; CARP1; CARP-1
UniProt Protein Name	E3 ubiquitin-protein ligase RNF34
UniProt Synonym Protein Names	Caspase regulator CARP1
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	RNF34
UniProt Synonym Gene Names	hRFI
NCBI Protein Information	E3 ubiquitin-protein ligase RNF34
NCBI Summary for RNF34	The protein encoded by this gene contains a RINF finger, a motif known to be involved in protein-protein and protein-DNA interactions. This protein interacts with DNAJA3/hTid-1, which is a DnaJ protein reported to function as a modulator of apoptosis. Overexpression of this gene in Hela cells was shown to confer the resistance to TNF-alpha induced apoptosis, suggesting an anti-apoptotic function of this protein. This protein can be cleaved by caspase-3 during the induction of apoptosis. This protein also targets p53 and phospho-p53 for degradation. Alternatively splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Feb 2012]
UniProt Comments for RNF34	E3 ubiquitin-protein ligase that regulates several biological processes through the ubiquitin-mediated proteasomal degradation of various target proteins. Ubiquitinates the caspases CASP8 and CASP10, promoting their proteasomal degradation, to negatively regulate cell death downstream of death domain receptors in the extrinsic pathway of apoptosis (PubMed:15069192). May mediate 'Lys-48'-linked polyubiquitination of RIPK1 and its subsequent proteasomal degradation thereby indirectly regulating the tumor necrosis factor-mediated signaling pathway (Ref. 13). Negatively regulates p53/TP53 through its direct ubiquitination and targeting to proteasomal degradation (PubMed:17121812). Indirectly, may also negatively regulate p53/TP53 through ubiquitination and degradation of SFN (PubMed:18382127). Mediates PPARGC1A proteasomal degradation probably through ubiquitination thereby indirectly regulating the metabolism of brown fat cells (PubMed:22064484). Possibly involved in innate immunity, through 'Lys-48'-linked polyubiquitination of NOD1 and its subsequent proteasomal degradation (PubMed:25012219).
Research Articles on RNF34	**1.** Data indicate that E3 ligase RNF34 is associated with nucleotide-binding oligomerization domain-containing protein 1 (NOD1).
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