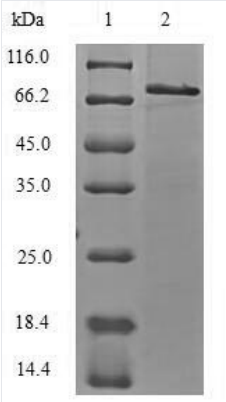
E3 Ubiquitin-Protein Ligase TRIM21 (TRIM21) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	E3 ubiquitin-protein ligase TRIM21 (Trim21), Recombinant Protein
Full Product Name	Recombinant Mouse E3 ubiquitin-protein ligase TRIM21 (Trim21)
Product Gene Name	Trim21 recombinant protein
Product Synonym Names	52 kDa Ro protein; 52 kDa ribonucleoprotein autoantigen Ro/SS-A; Ro(SS-A); Sjoegren syndrome type A antigen; SS-A; Tripartite motif-containing protein 21
Sequence	MSPSTTSKMS LEKMWEEVTC SICLDPMVEP MSIECGHCFC KECIFEVGKN GGSSCPECRQ QFLLRNLRPN RHIANMVENL KQIAQNTKKS TQETHCMKHG EKLHLFCEED GQALCWVCAQ SGKHRDHTRV PIEEAAKVYQ EKIHVVLEKL RKGKELAEKM EMDLTMQRTD WKRNIDTQKS RIHAEFALQN SLLAQEEQRQ LQRLEKDQRE YLRLLGKKEA ELAEKNQALQ ELISELERRI RGSELELLQE VRIILERSGS WNLDTLDIDA PDLTSTCPVP GRKKMLRTCW VHITLDRNTA NSWLIISKDR RQVRMGDTHQ NVSDNKERFS NYPMVLGAQR FSSGKMYWEV DVTQKEAWDL GVCRDSVQRK GQFSLSPENG FWTIWLWQDS YEAGTSPQTT LHIQVPPCQI GIFVDYEAGV VSFYNITDHG SLIYTFSECV FAGPLRPFFN VGFNYSGGNA APLKLCPLKM
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	70.2 kDa
Sequence Positions	1-470aa; 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.
3D Structure	ModBase 3D Structure for Q62191
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Trim21 recombinant protein	E3 ubiquitin-protein ligase whose activity is dependent on E2 enzymes, UBE2D1, UBE2D2, UBE2E1 and UBE2E2. Forms a ubiquitin ligase complex in cooperation with the E2 UBE2D2 that is used not only for the ubiquitination of USP4 and IKBKB but also for its self-ubiquitination. Component of cullin-RING-based SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes such as SCF(SKP2)-like complexes. A TRIM21-containing SCF(SKP2)-like complex is shown to mediate ubiquitination of CDKN1B ('Thr-187' phosphorylated-form), thereby promoting its degradation by the proteasome. Monoubiquitinates IKBKB that will negatively regulates Tax-induced NF-kappa-B signaling. Negatively regulates IFN-beta production post-pathogen recognition by polyubiquitin-mediated degradation of IRF3. Mediates the ubiquitin-mediated proteasomal degradation of IgG1 heavy chain, which is linked to the VCP-mediated ER-associated degradation (ERAD) pathway. Promotes IRF8 ubiquitination, which enhanced the ability of IRF8 to stimulate cytokine genes transcription in macrophages. Plays a role in the regulation of the cell cycle progression. Enhances the decapping activity of DCP2. Exists as a ribonucleoprotein particle present in all mammalian cells studied and composed of a single polypeptide and one of four small RNA molecules. At least two isoforms are present in nucleated and red blood cells, and tissue specific differences in RO/SSA proteins have been identified. The common feature of these proteins is their ability to bind HY RNAs. 2.

Product References and Citations for Trim21 recombinant protein	Structural differences between the human and mouse 52-kD Ro autoantigens associated with poorly conserved autoantibody activity across species.Keech C.L., Gordon T.P., McCluskey J.Clin. Exp. Immunol. 104:255-263(1996) Autoantigen Ro52 is an interferon inducible E3 ligase that ubiquitinates IRF-8 and enhances cytokine expression in macrophages.Kong H.J., Anderson D.E., Lee C.H., Jang M.K., Tamura T., Tailor P., Cho H.K., Cheong J., Xiong H., Morse H.C. III, Ozato K.J. Immunol. 179:26-30(2007)
Other Notes	Small volumes of Trim21 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 Trim21 purchase	MBS1316666 is a recombinant protein targeting Trim21. Also known as Recombinant Mouse E3 ubiquitin-protein ligase TRIM21 (Trim21). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of Trim21 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Trim21. It may not necessarily be applicable to this product.

NCBI GI #	3024571
NCBI GeneID	20821
NCBI Accession #	Q62191.1
UniProt Primary Accession #	Q62191
UniProt Related Accession #	Q62191
NCBI Official Full Name	E3 ubiquitin-protein ligase TRIM21
NCBI Official Synonym Full Names	tripartite motif-containing 21
NCBI Official Symbol	Trim21
NCBI Official Synonym Symbols	Ro52; Ssa1
UniProt Protein Name	E3 ubiquitin-protein ligase TRIM21
UniProt Synonym Protein Names	52 kDa Ro protein; 52 kDa ribonucleoprotein autoantigen Ro/SS-A; Ro(SS-A); Sjoegren syndrome type A antigen; SS-A; Tripartite motif-containing protein 21
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	Trim21
UniProt Synonym Gene Names	Ro52; Ssa1; SS-A
UniProt Entry Name	RO52_MOUSE
NCBI Protein Information	E3 ubiquitin-protein ligase TRIM21

UniProt Comments for Trim21	TRIM21: E3 ubiquitin-protein ligase whose activity is dependent on E2 enzymes, UBE2D1, UBE2D2, UBE2E1 and UBE2E2. Forms a ubiquitin ligase complex in cooperation with the E2 UBE2D2 that is used not only for the ubiquitination of USP4 and IKBKB but also for its self-ubiquitination. Component of cullin-RING-based SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes such as SCF(SKP2)-like complexes. A TRIM21-containing SCF(SKP2)- like complex is shown to mediate ubiquitination of CDKN1B ('Thr- 187' phosphorylated-form), thereby promoting its degradation by the proteasome. Monoubiquitinates IKBKB that will negatively regulates Tax-induced NF-kappa-B signaling. Negatively regulates IFN-beta production post-pathogen recognition by polyubiquitin- mediated degradation of IRF3. Mediates the ubiquitin-mediated proteasomal degradation of IgG1 heavy chain, which is linked to the VCP-mediated ER-associated degradation (ERAD) pathway. Promotes IRF8 ubiquitination, which enhanced the ability of IRF8 to stimulate cytokine genes transcription in macrophages. Plays a role in the regulation of the cell cycle progression. Enhances the decapping activity of DCP2. Exists as a ribonucleoprotein particle present in all mammalian cells studied and composed of a single polypeptide and one of four small RNA molecules. At least two isoforms are present in nucleated and red blood cells, and tissue specific differences in RO/SSA proteins have been identified. The common feature of these proteins is their ability to bind HY RNAs.2. Belongs to the TRIM/RBCC family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ligase; Ubiquitin ligase; EC 6.3.2.-; Ubiquitin conjugating system Cellular Component: cytoplasm; cytoplasmic vesicle; intracellular; nucleus; ribonucleoprotein complex; SCF ubiquitin ligase complex Molecular Function: coenzyme F420-0 gamma-glutamyl ligase activity; coenzyme F420-2 alpha-glutamyl ligase activity; DNA binding; identical protein binding; ligase activity; metal ion binding; protein binding; ribosomal S6-glutamic acid ligase activity; RNA binding; ubiquitin-protein ligase activity; UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate-D-alanyl-D-alanine ligase activity; zinc ion binding Biological Process: cell cycle; inhibition of NF-kappaB transcription factor; innate immune response; negative regulation of viral transcription; positive regulation of autophagy; positive regulation of cell cycle; positive regulation of transcription factor activity; positive regulation of virion penetration into host cell; protein autoubiquitination; protein destabilization; protein monoubiquitination; protein polyubiquitination; protein ubiquitination
Research Articles on Trim21	**1.** Trim21, an estrogen receptor coactivator, induces MYC oncogene by removing repressive CoAA through E2-dependent degradation of CoAA.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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