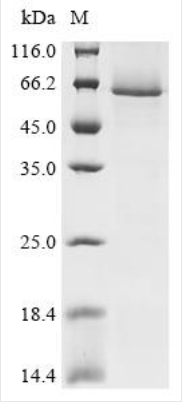
TNF Receptor-Associated Factor 2 (TRAF2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	TNF receptor-associated factor 2 (TRAF2), Recombinant Protein
Full Product Name	Recombinant Human TNF receptor-associated factor 2 (TRAF2)
Product Gene Name	TRAF2 recombinant protein
Product Synonym Names	E3 ubiquitin-protein ligase TRAF2; RING-type E3 ubiquitin transferase TRAF2; Tumor necrosis factor type 2 receptor-associated protein 3
Sequence	AAASVTPPGS LELLQPGFSK TLLGTKLEAK YLCSACRNVL RRPFQAQCGH RYCSFCLASI LSSGPQNCAA CVHEGIYEEG ISILESSSAF PDNAARREVE SLPAVCPSDG CTWKGTLKEY ESCHEGRCPL MLTECPACKG LVRLGEKERH LEHECPERSL SCRHCRAPCC GADVKAHHEV CPKFPLTCDG CGKKKIPREK FQDHVKTCGK CRVPCRFHAI GCLETVEGEK QQEHEVQWLR EHLAMLLSSV LEAKPLLGDQ SHAGSELLQR CESLEKKTAT FENIVCVLNR EVERVAMTAE ACSRQHRLDQ DKIEALSSKV QQLERSIGLK DLAMADLEQK VLEMEASTYD GVFIWKISDF ARKRQEAVAG RIPAIFSPAF YTSRYGYKMC LRIYLNGDGT GRGTHLSLFF VVMKGPNDAL LRWPFNQKVT LMLLDQNNRE HVIDAFRPDV TSSSFQRPVN DMNIASGCPL FCPVSKMEAK NSYVRDDAIF IKAIVDLTGL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Liquid or Lyophilized powder If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.
Purity/Purification	Greater than 85% as determined by SDS-PAGE. (lot specific)
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	55,859 Da
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.
Chromosome Location	Chromosome: 9; NC_000009.11 (139780965..139821067). Location: 9q34
OMIM	601895
3D Structure	ModBase 3D Structure for Q12933
Species	Homo sapiens (Human)
Tag	N-terminal 6xHis-tagged
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Product Categories/Family for TRAF2 recombinant protein	Cancer
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Related Product Information for TRAF2 recombinant protein	Regulates activation of NF-kappa-B and JNK and plays a central role in the regulation of cell survival and apoptosis. Required for normal antibody isotype switching from IgM to IgG. Has E3 ubiquitin-protein ligase activity and promotes 'Lys-63'-linked ubiquitination of target proteins, such as BIRC3, RIPK1 and TICAM1. Is an essential constituent of several E3 ubiquitin-protein ligase complexes, where it promotes the ubiquitination of target proteins by bringing them into contact with other E3 ubiquitin ligases. Regulates BIRC2 and BIRC3 protein levels by inhibiting their autoubiquitination and subsequent degradation; this does not depend on the TRAF2 RING-type zinc finger domain. Plays a role in mediating activation of NF-kappa-B by EIF2AK2/PKR. In complex with BIRC2 or BIRC3, promotes ubiquitination of IKBKE.
Other Notes	Small volumes of TRAF2 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 TRAF2 purchase	MBS9021706 is a recombinant protein targeting TRAF2. Also known as Recombinant Human TNF receptor-associated factor 2 (TRAF2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of TRAF2 recombinant protein
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRAF2. It may not necessarily be applicable to this product.

NCBI GI #	22027612
NCBI GeneID	7186
NCBI Accession #	NP_066961.2
UniProt Primary Accession #	Q12933
UniProt Secondary Accession #	Q7Z337; Q96NT2; A8K107; B4DPJ7
UniProt Related Accession #	Q12933
GenBank Nucleotide #	NM_021138.3
NCBI Official Full Name	TNF receptor-associated factor 2
NCBI Official Synonym Full Names	TNF receptor-associated factor 2
NCBI Official Symbol	TRAF2
NCBI Official Synonym Symbols	TRAP; TRAP3; MGC:45012
UniProt Protein Name	TNF receptor-associated factor 2
UniProt Synonym Protein Names	E3 ubiquitin-protein ligase TRAF2; Tumor necrosis factor type 2 receptor-associated protein 3
Protein Family	TNF receptor-associated factor
UniProt Gene Name	TRAF2

UniProt Synonym Gene Names	TRAP3
UniProt Entry Name	TRAF2_HUMAN
NCBI Protein Information	TNF receptor-associated factor 2; E3 ubiquitin-protein ligase TRAF2; tumor necrosis factor type 2 receptor associated protein 3; tumor necrosis factor type 2 receptor-associated protein 3
NCBI Summary for TRAF2	The protein encoded by this gene is a member of the TNF receptor associated factor (TRAF) protein family. TRAF proteins associate with, and mediate the signal transduction from members of the TNF receptor superfamily. This protein directly interacts with TNF receptors, and forms a heterodimeric complex with TRAF1. This protein is required for TNF-alpha-mediated activation of MAPK8/JNK and NF-kappaB. The protein complex formed by this protein and TRAF1 interacts with the inhibitor-of-apoptosis proteins (IAPs), and functions as a mediator of the anti-apoptotic signals from TNF receptors. The interaction of this protein with TRADD, a TNF receptor associated apoptotic signal transducer, ensures the recruitment of IAPs for the direct inhibition of caspase activation. BIRC2/c-IAP1, an apoptosis inhibitor possessing ubiquitin ligase activity, can unbiquitinate and induce the degradation of this protein, and thus potentiate TNF-induced apoptosis. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of only one transcript has been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for TRAF2	TRAF2: Regulates activation of NF-kappa-B and JNK and plays a central role in the regulation of cell survival and apoptosis. Required for normal antibody isotype switching from IgM to IgG. Has E3 ubiquitin-protein ligase activity and promotes 'Lys-63'- linked ubiquitination of target proteins, such as BIRC3, RIPK1 and TICAM1. Is an essential constituent of several E3 ubiquitin- protein ligase complexes, where it promotes the ubiquitination of target proteins by bringing them into contact with other E3 ubiquitin ligases. Regulates BIRC2 and BIRC3 protein levels by inhibiting their autoubiquitination and subsequent degradation; this does not depend on the TRAF2 RING-type zinc finger domain. Homotrimer, and heterotrimer with TRAF1 and TRAF3 (via TRAF domain). The domain containing the RING-type and the first TRAF-type zinc finger can also form homodimers (in vitro). Interacts with TNFRSF1B/TNFR2, TNFRSF4, TNFRSF5/CD40, CD27/TNFRSF7, TNFRSF8/CD30, TNFRSF9/CD137, TNFRSF11A/RANK, TNFRSF13B/TACI, TNFRSF14, TNFRSF16/NGFR, TNFRSF17/BCMA, TNFRSF18/AITR, TNFRSF19/TROY, TNFRSF19L/RELT, XEDAR, EDAR, Epstein-Barr virus BNFL1/LMP-1 and IL15RA. Interacts with CDK9, CSK, MAP3K1, MAP3K5, MAP3K11, MAP3K14, MAP4K2, RIPK1, RIPK2, TNIK, TBK1, SPHK1, TRADD, TRAFD1, TRAIP, TANK/ITRAF, TNFAIP3, TDP2, MAVS/IPS1, TICAM1 and TRPC4AP. Interacts with CASP8AP2, NFATC2IP, PEG3 and HIVEP3. Interacts with BIRC2 and BIRC3 N- terminus; a single BIRC2 or BIRC3 molecule interacts with a heterotrimer formed by TRAF1 and TRAF2, or a TRAF2 homotrimer. Identified in a complex composed of TRAF2, TRAF3, BIRC2 and BIRC3. Interaction with BIRC2 and/or BIRC3 is essential for degradation of NFKBIA and activation of NF-kappa-B. Interacts with CYLD, USP48, DAB2IP, IKKA and IKKB. Identified in a complex with TNFRSF1A, RIPK1 and IKKB. Interacts (via 'Lys-63'-linked polyubiquitin chains) with TAB2 and TAB3. Interacts with ERN1 and TAOK3. Interaction with TAOK3 is facilitated under ER stress conditions, such as treatment with tunicamycin, and may promote TRAF2 phosphorylation. Has very low E3 ubiquitin ligase activity in the absence of sphingosine-1-phosphate. E3 ubiquitin ligase activity is strongly activated by cytoplasmic sphingosine-1- phosphate. Belongs to the TNF receptor-associated factor family. A subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Ligase; Ubiquitin conjugating system; Autophagy; Ubiquitin ligase; EC 6.3.2.- Chromosomal Location of Human Ortholog: 9q34 Cellular Component: internal side of plasma membrane; cytoplasm; vesicle membrane; cell cortex; cytosol; ubiquitin ligase complex; lipid raft Molecular Function: identical protein binding; sphingolipid binding; zinc ion binding; CD40 receptor binding; ubiquitin-protein ligase activity; mitogen-activated protein kinase kinase kinase binding; tumor necrosis factor receptor binding; protein phosphatase binding; protein binding; signal transducer activity; enzyme binding; ubiquitin protein ligase binding; thioesterase binding; protein complex binding; ligase activity Biological Process: caspase activation; positive regulation of JNK activity; protein autoubiquitination; protein heterooligomerization; apoptosis; activation of NF-kappaB-inducing kinase; positive regulation of T cell cytokine production; signal transduction; activation of NF-kappaB transcription factor; regulation of apoptosis; cellular protein complex assembly; tumor necrosis factor-mediated signaling pathway; positive regulation of interleukin-2 production; innate immune response; protein catabolic process; protein complex assembly; positive regulation of transcription factor activity; positive regulation of T cell activation; regulation of immunoglobulin secretion
Research Articles on TRAF2	**1.** RAD23A down-regulated TRAF2 protein level through ubiquitin-proteasome system.

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