E3 Ubiquitin-Protein Ligase DTX3L (DTX3L) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	E3 ubiquitin-protein ligase DTX3L (Dtx3l), Recombinant Protein
Full Product Name	Recombinant Mouse E3 ubiquitin-protein ligase DTX3L (Dtx3l)
Product Gene Name	Dtx3l recombinant protein
Product Synonym Gene Name	Dtx3l
Sequence	ASSPDPPSPL LVRLRESIPK AHRKLEIYFQ SRASGGGECS VQPVGPSAPD TYEVKFLKKA DKEKVLKKSE HEMLVHNKPV TIVLETTKKP VEDLRPRLPS LTQPVETPSS RPPSLTGSLD EALCDDIHPQ DGLVSNSVDS VVQKIFLAVT AELNCDLLSK EQRASITTVC PHIIKSMEGS DGIKKVCGNF KDIEKIHHFL SEQLLEREQK RKGSEQKRKC APQKHTPPDV EREPPDQSSI QVPVLLLEYF KHVNPGRLEF IEYKFGVNIE IQASSPNMVT VGFTSSPFGN VEEASQSFVR DFQKCSQSLK QDCISLEEHQ RAKEVRQELS RCFPKLLIKG QGRTLTLLGS PADISAATEK VSQGLGLRPV KITASGYTTG IEVDSTRFKL LEPELLQEIS EIEQKFNTRG KVQEKGQKTC ILFVPKDKDL DLSVQSYTGF TDAFQRATWQ LRTEVLSLKG LGKERARLHN TKFADNFKKE HPNVHFVTSQ ESVTLTGLPH HLAQAMQYVS KRMGLAPSSG EKLAMDQETP MEISSSDPHG DQQENAALPA PRGTSSSPAA SKGTEDYCVI CMDTISNKHV LPKCKHEFCT SCISKAMLIK PVCPVCLTSY GIQKGNQPEG TMSYSTQKGS LPGYEGCGTI VINYEIKDGI QTKEHPNPGK AYHGTRRTAY LPDNTEGRKV LDLLHEAFKH RLTFTIGYSR ATGVSDVITW NDIHHKTSKF GGPANFGYPD PDYLKRVKEE LKAKGIE
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	76,579 Da
Sequence Positions	2-748, 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.
3D Structure	ModBase 3D Structure for Q3UIR3
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Dtx3l recombinant protein	MBS1348519 is a recombinant protein targeting Dtx3l. Also known as Recombinant Mouse E3 ubiquitin-protein ligase DTX3L (Dtx3l). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Dtx3l 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Dtx3l. It may not necessarily be applicable to this product.

NCBI GI #	133930784

NCBI GeneID	209200
NCBI Accession #	NP_001013389.2
UniProt Primary Accession #	Q3UIR3
UniProt Secondary Accession #	Q8BN11
UniProt Related Accession #	Q3UIR3
GenBank Nucleotide #	NM_001013371.2
NCBI Official Full Name	E3 ubiquitin-protein ligase DTX3L
NCBI Official Synonym Full Names	deltex 3-like, E3 ubiquitin ligase
NCBI Official Symbol	Dtx3l
NCBI Official Synonym Symbols	AU042200; BC023741
UniProt Protein Name	E3 ubiquitin-protein ligase DTX3L
UniProt Synonym Protein Names	Protein deltex-3-like; RING-type E3 ubiquitin transferase DTX3LCurated
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	Dtx3l
UniProt Synonym Gene Names	Bbap
NCBI Protein Information	E3 ubiquitin-protein ligase DTX3L
UniProt Comments for Dtx3l	E3 ubiquitin-protein ligase which, in association with ADP-ribosyltransferase PARP9, plays a role in DNA damage repair and in interferon-mediated antiviral responses. Monoubiquitinates several histones, including histone H2A, H2B, H3 and H4. In response to DNA damage, mediates monoubiquitination of 'Lys-91' of histone H4 (H4K91ub1). The exact role of H4K91ub1 in DNA damage response is still unclear but it may function as a licensing signal for additional histone H4 post-translational modifications such as H4 'Lys-20' methylation (H4K20me). PARP1-dependent PARP9-DTX3L-mediated ubiquitination promotes the rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage sites. By monoubiquitinating histone H2B HIST1H2BH/H2BJ and thereby promoting chromatin remodeling, positively regulates STAT1-dependent interferon-stimulated gene transcription and thus STAT1-mediated control of viral replication. Independently of its catalytic activity, promotes the sorting of chemokine receptor CXCR4 from early endosome to lysosome following CXCL12 stimulation by reducing E3 ligase ITCH activity and thus ITCH-mediated ubiquitination of endosomal sorting complex required for transport ESCRT-0 components HGS and STAM. In addition, required for the recruitment of HGS and STAM to early endosomes.
Research Articles on Dtx3l	**1.** Data indicate that PARP polymerase PARP9-E3 ligase DTX3L interacts with STAT1 transcription factor and enhances translocation of STAT1 to the nucleus.
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