Ubiquitin Carboxyl-Terminal Hydrolase 7 (USP7) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ubiquitin carboxyl-terminal hydrolase 7 (Usp7), Recombinant Protein
Full Product Name	Recombinant Mouse Ubiquitin carboxyl-terminal hydrolase 7 (Usp7) , partial
Product Gene Name	Usp7 recombinant protein
Product Synonym Gene Name	Usp7
Sequence	VGLKNQGATC YMNSLLQTLF FTNQLRKAVY MMPTEGDDSS KSVPLALQRV FYELQHSDKP VGTKKLTKSF GWETLDSFMQ HDVQELCRVL LDNVENKMKG TCVEGTIPKL FRGKMVSYIQ CKDVDYRSDR REDYYDIQLS IKGKKNIFES FVDYVAVEQL DGDNKYDAGE HGLQEAEKGV KFLTLPPVLH LQLMRFMYDP QTDQNIKIND RFEFPEQLPL DEFLQKTDPK DPANYILHAV LVHSGDNHGG HYVVYLNPKG DGKWCKFDDD VVSRCTKEEA IEHNYGGHDD DLSVRHCTNA YMLVYIRE
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	127,996 Da
Sequence Positions	215-522. Partial, covers the USP Domain
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 Q6A4J8
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Usp7 recombinant protein	MBS1329117 is a recombinant protein targeting Usp7. Also known as Recombinant Mouse Ubiquitin carboxyl-terminal hydrolase 7 (Usp7) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Usp7 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 Usp7. It may not necessarily be applicable to this product.

NCBI GI #	154146209
NCBI GeneID	252870
NCBI Accession #	NP_001003918.2
UniProt Primary Accession #	Q6A4J8
UniProt Secondary Accession #	Q3UX92; Q496Y5; Q8BW01

UniProt Related Accession #	Q6A4J8
GenBank Nucleotide #	NM_001003918.2
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 7
NCBI Official Synonym Full Names	ubiquitin specific peptidase 7
NCBI Official Symbol	Usp7
NCBI Official Synonym Symbols	Hausp; C80752; AA409944; AA617399; AU019296; AW548146; 2210010O09Rik
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 7
UniProt Synonym Protein Names	Deubiquitinating enzyme 7; Herpesvirus-associated ubiquitin-specific protease; mHAUSP; Ubiquitin thioesterase 7; Ubiquitin-specific-processing protease 7
UniProt Gene Name	Usp7
UniProt Synonym Gene Names	Hausp; mHAUSP
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 7
UniProt Comments for Usp7	Hydrolase that deubiquitinates target proteins such as FOXO4, p53/TP53, MDM2, ERCC6, DNMT1, UHRF1, PTEN, KMT2E and DAXX (PubMed:21268065, PubMed:14719112, PubMed:19946331). Together with DAXX, prevents MDM2 self-ubiquitination and enhances the E3 ligase activity of MDM2 towards p53/TP53, thereby promoting p53/TP53 ubiquitination and proteasomal degradation. Deubiquitinates p53/TP53, preventing degradation of p53/TP53, and enhances p53/TP53-dependent transcription regulation, cell growth repression and apoptosis (). Deubiquitinates p53/TP53 and MDM2 and strongly stabilizes p53/TP53 even in the presence of excess MDM2, and also induces p53/TP53-dependent cell growth repression and apoptosis. Deubiquitination of FOXO4 in presence of hydrogen peroxide is not dependent on p53/TP53 and inhibits FOXO4-induced transcriptional activity. In association with DAXX, is involved in the deubiquitination and translocation of PTEN from the nucleus to the cytoplasm, both processes that are counteracted by PML. Deubiquitinates KMT2E preventing KMT2E proteasomal-mediated degradation (). Involved in cell proliferation during early embryonic development. Involved in transcription-coupled nucleotide excision repair (TC-NER) in response to UV damage: recruited to DNA damage sites following interaction with KIAA1530/UVSSA and promotes deubiquitination of ERCC6, preventing UV-induced degradation of ERCC6 (). Involved in maintenance of DNA methylation via its interaction with UHRF1 and DNMT1: acts by mediating deubiquitination of UHRF1 and DNMT1, preventing their degradation and promoting DNA methylation by DNMT1. Acts as a chromatin regulator via its association with the Polycomb group (PcG) multiprotein PRC1-like complex; may act by deubiquitinating components of the PRC1-like complex (). Able to mediate deubiquitination of histone H2B; it is however unsure whether this activity takes place in vivo (PubMed:27863226). Exhibits a preference towards 'Lys-48'-linked ubiquitin chains. Increases regulatory T-cells (Treg) suppressive capacity by deubiquitinating and stabilizing the transcription factor FOXP3 which is crucial for Treg cell function (PubMed:23973222).
Research Articles on Usp7	**1.** Pit1 deletion inhibited USP7/IRS1 dissociation upon insulin stimulation.
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