

Product datasheet for TP521203

Usp13 (NM_001013024) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ubiquitin specific peptidase 13 (isopeptidase T-3) (Usp13), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR221203 protein sequence Red=Cloning site Green=Tags(s)

MQRRGALFSVPGGGGKMAAGDLGELLVPHMPTIRVPRSGDRVYKNECAFSYDSPNSEGGLYVCMNTFLAF
GREHVERHFRKTGQSVYMLKRRHMREKVRGASGGALPKRRNSKIFLDLDMDDDLNSDDYEYEDEAKLVIF
PDHYEIALPNIEELPALVTIACDAVLSSKSPYRKQDPDTWENEVPSKYANNLVQLDNGVRIPPSGWKCA
RCDLRENLWLNLTGDSVLCGKWWFFDSSGGNGHALEHYRDMGYPLAVKLGITITPDGADVVSFQEEGPVSDP
HLAKHLAHFGIDMLHTQGTENGLRDNDIKPRVSEWEVIQESGTLKPMYGPYGTGLKNLGNSCYLSSVMQ
AIFSIPEFQRAYVGNLPRIFDYSPLDPTQDFNTQMTKLGHLLSGQYSKPPVKSELIEQVMKEEHKPPQN
GISPRMFKAFVSKSHPEFSSNRQQDAQEFFLHLVNLVERNRIIGSENPSDVFRFLVEERIQQCQTRKVRYT
ERVDYLMQLPVAMEAATNKDELITYELMRREAEANRRPLPELVRAKIPFSACLQAFAPDNVDDFWSSAL
QAKSAGVKTSRFASFPEYLVVQIKKFTFGLDWVPRKFDVSDMPDLLDISHLRARGLQPGEELPDISPP
IVIPDDSKDRMLNQLIDPSDIDESSVMQLAEMGFPLEACRKAVYFTGNTGAEVAFNWIIVHMEEPDAEP
LAIPGYGGAGASVFGATGLDNQPPEEIVAIITSMGFQRNQAVQALQATNHNLERALDWIFSHPEFEEDSD
FVIEMENNANANIVSEAKPEGPRVKDGSAGMYELFAFISHMGTSTMSGHYVCHIKKEGRWVIYNDHKVCAS
ERPPKDLGYMYFYRRIPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	96.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001013042
Locus ID:	72607
UniProt ID:	Q5BKP2
RefSeq Size:	4686
Cytogenetics:	3 A3
RefSeq ORF:	2577
Synonyms:	2700071E21Rik; AI848077; IsoT-3; ISOT3
Summary:	<p>Deubiquitinase that mediates deubiquitination of target proteins such as BECN1, MITF, SKP2 and USP10 and is involved in various processes such as autophagy and endoplasmic reticulum-associated degradation (ERAD). Component of a regulatory loop that controls autophagy and p53/TP53 levels: mediates deubiquitination of BECN1, a key regulator of autophagy, leading to stabilize the PIK3C3/VPS34-containing complexes. Also deubiquitinates USP10, an essential regulator of p53/TP53 stability. In turn, PIK3C3/VPS34-containing complexes regulate USP13 stability, suggesting the existence of a regulatory system by which PIK3C3/VPS34-containing complexes regulate p53/TP53 protein levels via USP10 and USP13. Recruited by nuclear UFD1 and mediates deubiquitination of SKP2, thereby regulating endoplasmic reticulum-associated degradation (ERAD). Also regulates ERAD through the deubiquitination of UBL4A a component of the BAG6/BAT3 complex. Mediates stabilization of SIAH2 independently of deubiquitinase activity: binds ubiquitinated SIAH2 and acts by impairing SIAH2 autoubiquitination. Has a weak deubiquitinase activity in vitro and preferentially cleaves 'Lys-63'-linked polyubiquitin chains. In contrast to USP5, it is not able to mediate unanchored polyubiquitin disassembly. Able to cleave ISG15 in vitro; however, additional experiments are required to confirm such data.[UniProtKB/Swiss-Prot Function]</p>