

Product datasheet for TP526445

Usp33 (NM_133247) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ubiquitin specific peptidase 33 (Usp33), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226445 representing NM_133247 Red =Cloning site Green =Tags(s)

MTTFRNHCPHLDVSGEITKEDLIQKSLGACQDCKVRGPNLWACLENRCSYVGCGESQVDHSTIHSQETKH
 YLTVNLTLRWVCYACSKVFLDRKLGTPPSLPHVRQPQQTQENSVQDFKIPSNPALKTPMVAVSEDLDI
 EEEEEDELKARGLTGLKNIGNTCYMNAALQALSNCPLTQFFLDCGGLARTDKKPAICKSYLKLMTLWH
 KSRPGSVVPANLFQGIKTVNPTFRGYSQQDAQEFLRCLMDLLHEELKEQVMEMEEEPQTLTSEETVEEEK
 SQSDVDFQSCESCSSSEKAENESGSGKFPEDSNETTMLIQDEDDLEMAKDWQKEKVCNKINKANADVLD
 KDRDTCVETVDLNSQETVKVQIHGRASESITDVHLNDLATSQILPSNESVSPRLSASPPKLGSLWPGLSP
 PHKKAQSTSAKRKKQHKKYRSVISDIFDGTVISSVQCLTCDRVSITLETQDLSLPIGKEDLAKLHSSS
 HPTIVKAGSCGEAYAPQGWIAFFMEYVKRFVSCVPSWFWGPVWTLQDCLAAFFARDELKGDNMYSCEKC
 KKLNRGVKFKVQKFPEILCIHLKRFRHELMFSTKISTHVSFPLEGLDLQPFLAKDSPAQIVTYDLLSVI
 CHHGTASSGHYIAYCRNNLNNLWYEFDDQSVTEVSESTVQNAEAYVLFYRKSSSEEAQKERRRISNLLNIM
 EPSLLQFYISRQWLNKFKTFAEPGPISNNDFLCIHGGIPPRKASYIEDLVLMLPQNIWDNLNLSRYGGGPA
 VNHLIYICHTCQIELEKIEKRRKTELEIFIRLNRAFQEEDSPATFCISMQWFWREWESFVKGKDGDPPGPI
 DNTKIAVTKCGSVMLKQGADSGQISEETWNFLQSIYGGGPEVILRPPVHVDPDVLQAEKIEVETRSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	103.2 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:	<u>NP_573510</u>
Locus ID:	170822
UniProt ID:	<u>Q8R5K2</u>
RefSeq Size:	4206
Cytogenetics:	3 H3
RefSeq ORF:	2727
Synonyms:	9830169D19Rik; AA409780; Vdu1
Summary:	<p>Deubiquitinating enzyme involved in various processes such as centrosome duplication, cellular migration and beta-2 adrenergic receptor/ADRB2 recycling. Involved in regulation of centrosome duplication by mediating deubiquitination of CCP110 in S and G2/M phase, leading to stabilize CCP110 during the period which centrioles duplicate and elongate. Involved in cell migration via its interaction with intracellular domain of ROBO1, leading to regulate the Slit signaling. Plays a role in commissural axon guidance cross the ventral midline of the neural tube in a Slit-dependent manner, possibly by mediating the deubiquitination of ROBO1. Acts as a regulator of G-protein coupled receptor (GPCR) signaling by mediating the deubiquitination of beta-arrestins (ARRB1 and ARRB2) and beta-2 adrenergic receptor (ADRB2). Plays a central role in ADRB2 recycling and resensitization after prolonged agonist stimulation by constitutively binding ADRB2, mediating deubiquitination of ADRB2 and inhibiting lysosomal trafficking of ADRB2. Upon dissociation, it is probably transferred to the translocated beta-arrestins, leading to beta-arrestins deubiquitination and disengagement from ADRB2. This suggests the existence of a dynamic exchange between the ADRB2 and beta-arrestins. Deubiquitinates DIO2, thereby regulating thyroid hormone regulation. Mediates deubiquitination of both 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains.[UniProtKB/Swiss-Prot Function]</p>