

Recombinant Mouse Usp2 Protein, Myc/DDK-tagged

Cat. No. Usp2-6868M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquitin specific peptidase 2 (Usp2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	<p>Hydrolase that deubiquitinates polyubiquitinated target proteins such as MDM2, MDM4 and CCND1. Isoform 1 and isoform 2 possess both ubiquitin-specific peptidase and isopeptidase activities. Deubiquitinates MDM2 without reversing MDM2-mediated p53/TP53 ubiquitination and thus indirectly promotes p53/TP53 degradation and limits p53 activity. Has no deubiquitinase activity against p53/TP53. Prevents MDM2-mediated degradation of MDM4. Plays a role in the G1/S cell-cycle progression in normal and cancer cells. Plays a role in the regulation of myogenic differentiation of embryonic muscle cells. Regulates the circadian clock by modulating its intrinsic circadian rhythm and its capacity to respond to external cues. Associates with clock proteins and deubiquitinates core clock component PER1 but does not affect its overall stability. Regulates the nucleocytoplasmic shuttling and nuclear retention of PER1 and its repressive role on the clock transcription factors CLOCK and ARNTL/BMAL1.</p>
Molecular Mass	70 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Usp2 ubiquitin specific peptidase 2 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Usp2
Synonyms	Usp2; ubiquitin specific peptidase 2; ubp4; Ubp41; B930035K21Rik; ubiquitin carboxyl-terminal hydrolase 2; 41 kDa ubiquitin-specific protease; deubiquitinating enzyme 2; ubiquitin specific protease 2; ubiquitin thioesterase 2; ubiquitin thiolesterase 2; ubiquitin-specific-processing protease 2; EC 3.4.19.12
Gene ID	53376
mRNA Refseq	NM_016808
Protein Refseq	NP_058088
UniProt ID	O88623

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