Recombinant Mouse Usp33 Protein, Myc/DDK-tagged

Cat. No. Usp33-6875M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquitin specific peptidase 33 (Usp33), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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

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	deubiquitination of both 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains.
Molecular Mass	103.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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	Usp33 ubiquitin specific peptidase 33 [Mus musculus (house mouse)]
Official Symbol	Usp33
Synonyms	USP33; ubiquitin specific peptidase 33; ubiquitin carboxyl-terminal hydrolase 33; ubiquitin thioesterase 33; deubiquitinating enzyme 33; ubiquitin thiolesterase 33; ubiquitin specific protease 33; VHL-interacting deubiquitinating enzyme 1; ubiquitin-specific-processing protease 33; Vhlh-interacting deubiquitinating enzyme 1; pVHL-interacting deubiquitinating enzyme 1; Vdu1; AA409780; 9830169D19Rik
Gene ID	170822
mRNA Refseq	NM_133247

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Protein Refseq	NP_573510
UniProt ID	Q8R5K2

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