

Recombinant Mouse Usp20 Protein, Myc/DDK-tagged

Cat. No. Usp20-6869M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquitin specific peptidase 20 (Usp20), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Deubiquitinating enzyme involved in beta-2 adrenergic receptor (ADRB2) recycling. Acts as a regulator of G-protein coupled receptor (GPCR) signaling by mediating the deubiquitination 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, possibly 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. Deubiquitinates HIF1A, leading to stabilize HIF1A and enhance HIF1A-mediated activity. Mediates deubiquitination of both 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains.
Molecular Mass	102.6 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

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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 Usp20 ubiquitin specific peptidase 20 [Mus musculus (house mouse)]

Official Symbol Usp20

Synonyms USP20; ubiquitin specific peptidase 20; ubiquitin carboxyl-terminal hydrolase 20; ubiquitin thioesterase 20; deubiquitinating enzyme 20; ubiquitin thiolesterase 20; ubiquitin specific protease 20; VHL-interacting deubiquitinating enzyme 2; ubiquitin-specific-processing protease 20; Vdu2; AI467231; 1700055M05Rik

Gene ID 74270

mRNA Refseq NM_028846

Protein Refseq NP_083122

UniProt ID Q8C6M1

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