

Recombinant Human USP33 Protein (T2-L942), Tag Free

Cat. No. USP33-0369H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP33(T2-L942 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	T2-L942
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.

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	Deubiquitinates DIO2, thereby regulating thyroid hormone regulation. Mediates deubiquitination of both 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	USP33 ubiquitin specific peptidase 33 [Homo sapiens (human)]
Official Symbol	USP33
Synonyms	USP33; ubiquitin specific peptidase 33; ubiquitin specific protease 33; ubiquitin carboxyl-terminal hydrolase 33; KIAA1097; VDU1; hVDU1; ubiquitin thioesterase 33; deubiquitinating enzyme 33; ubiquitin thiolesterase 33; VHL-interacting deubiquitinating enzyme 1; ubiquitin-specific-processing protease 33; pVHL-interacting deubiquitinating enzyme 1; MGC16868;

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Gene ID	23032
mRNA Refseq	NM_015017
Protein Refseq	NP_055832
UniProt ID	Q8TEY7

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