Datasheet for ABIN7555922

USP33 Protein (AA 1-942) (His tag)

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Overview

Quantity:	1 mg
Target:	USP33
Protein Characteristics:	AA 1-942
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP33 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat USP33 Protein expressed in mammalien cells.
Sequence:	MTGSNSHITI LTLKVLPHFE SLGKQEKIPN KMSAFRNHCP HLDSVGEITK EDLIQKSLGT CQDCKVQGPN LWACLENRCS YVGCGESQVD HSTIHSQETK HYLTVNLTTL RVWCYACSKE VFLDRKLGTQ PSLPHVRQPH QIQENSVQDF KIPSNTTLKT PLVAVFDDLD IEADEEDELR ARGLTGLKNI GNTCYMNAAL QALSNCPPLT QFFLDCGGLA RTDKKPAICK SYLKLMTELW HKSRPGSVVP TTLFQGIKTV NPTFRGYSQQ DAQEFLRCLM DLLHEELKEQ VMEVEEDPQT ITTEETMEED KSQSDVDFQS CESCSNSDRA ENENGSRCFS EDNNETTMLI QDDENNSEMS KDWQKEKMCN KINKVNSEGE FDKDRDSISE TVDLNNQETV KVQIHSRASE YITDVHSNDL STPQILPSNE GVNPRLSASP PKSGNLWPGL APPHKKAQSA SPKRKKQHKK YRSVISDIFD GTIISSVQCL TCDRVSVTLE TFQDLSLPIP GKEDLAKLHS SSHPTSIVKA GSCGEAYAPQ GWIAFFMEYV KRFVVSCVPS WFWGPVVTLQ DCLAAFFARD ELKGDNMYSC EKCKKLRNGV KFCKVQNFPE ILCIHLKRFR HELMFSTKIS THVSFPLEGL DLQPFLAKDS PAQIVTYDLL

Product Details

	SVICHHGTAS SGHYIAYCRN NLNNLWYEFD DQSVTEVSES TVQNAEAYVL FYRKSSEEAQ KERRRISNLL NIMEPSLLQF YISRQWLNKF KTFAEPGPIS NNDFLCIHGG VPPRKAGYIE DLVLMLPQNI WDNLYSRYGG GPAVNHLYIC HTCQIEAEKI EKRRKTELEI FIRLNRAFQK EDSPATFYCI SMQWFREWES FVKGKDGDPP GPIDNTKIAV TKCGNVMLRQ GADSGQISEE TWNFLQSIYG GGPEVILRPP VVHVDPDILQ AEEKIEVETR SL **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	USP33
Alternative Name:	USP33 (USP33 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 33 (EC 3.4.19.12) (Deubiquitinating enzyme 33) (Ubiquitin thioesterase 33) (Ubiquitin-specific-processing protease 33) (VHL-interacting deubiquitinating enzyme 1) (hVDU1),FUNCTION: 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

Target Details

	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. {ECO:0000269|PubMed:12865408, ECO:0000269|PubMed:19363159, ECO:0000269|PubMed:19424180, ECO:0000269|PubMed:23486064}.
Molecular Weight:	106.7 kDa
UniProt:	Q8TEY7
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

