

Active Recombinant Full Length Human USP20 Protein, C-Flag-tagged

Cat. No. USP20-787HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human USP20 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a ubiquitin specific processing protease that was first identified as a substrate of the VHL (von Hippel-Lindau disease) protein E3 ubiquitin ligase complex. In addition to being ubiquitinated by the VHL-E3 ligase complex, this enzyme deubiquitinates hypoxia-inducible factor (HIF)-1 alpha and thereby causes increased expression of HIF-1alpha targeted genes which play a role in angiogenesis, glucose metabolism, cell proliferation and metastasis. The enzyme encoded by this gene also regulates G-protein coupled receptor signaling by mediating the deubiquitination of beta-2 adrenergic receptor (ADRB2). This enzyme is a ubiquitously expressed thiolester hydrolase. Alternative splicing results in multiple transcript variants encoding the same protein.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Pull-down assay
Molecular Mass	101.7 kDa

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AA Sequence

MGDSRDLCPHLDSIGEVTKEDLLLKSKGTCQSCGVTGPNLWACLQVACPYYVGCGE
 SFADHSTIHAQAKKH NLTVNLTTFRLWCYACEKEVFLEQRLAAPLLGSSSKFSEQDS
 PPPSHPLKAVPIA VADEGESESEDDDLK PRGLTGMKNLGNSCYMNAALQALSNC
 PLTQFFLECGGLVRTDKK PALCKSYQKLVSEVWHKKRPSYVVP TSLSHGIKLVNPM
 FRGYAQQDTQEFLRCLMDQLHEELKEPVVATVALTEARDSDSSTDEKREGDRSP
 SE DEFLSCDSSSDRGE GGDGQGRGGGSSQAETELLIPDEAGRAISEKERMKDRKFS
 WGQQR TNSEQVDEDA DV DTAMAALDQPAEAQPPSPRSSSPC RTPEPDNDAHLRS
 SSRPCSPVHHHEGHAKLSSSPPRASPVRMAPSY VLKKAQVLSAGSRRRKEQRYRS
 VISDIFDGSILSLVQCLTC DRVSTTVETFQDLSLPIPGKEDLAKLHSA IYQNVPAKPGA
 CGDSYAAQGWLA FIVEYIRRFVVSCTPSWFWGPVVTLEDCLA AFFAADELKGDNMY
 SCE RCKKL R NGVKYCKVLRLPEILCIHLKRFRHEVMYSFKINSHVSFPLEGLDLRPFL
 AKECTSQITTYDLLS VICHHG TAGSGHYIAYCQNVINGQWYEFDDQYVTEVHETVV
 QNAEGYVLFYRKSS E EAMRERQQVVS LAA MREPSLLRFYVSREWLNKFNTFAEPG
 PITNQ TFLC SHGGIPPHKYHYIDDLVILPQNVWEHLYNRFGGG PAVNHLYVCSICQ
 VEIEALAKRRRIEIDTFIKLNKAFQAEESPGVIYCISMQWFREWEAFVKGKDNEPPG P
 IDNSRIAQVKGSGHVQLKQGADYGQISEETWTYLN SLYGGGPEIAIRQSVAQPLGPE
 NLHGEQKIEAET
 RAVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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Protein Families	Druggable Genome, Protease
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Full Length	Full L.
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GENE INFORMATION

Gene Name	USP20 ubiquitin specific peptidase 20 [Homo sapiens (human)]
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Official Symbol	USP20
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Synonyms	VDU2; hVDU2; LSFR3A
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Gene ID	10868
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mRNA Refseq	NM_006676.8
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Protein Refseq	NP_006667.3
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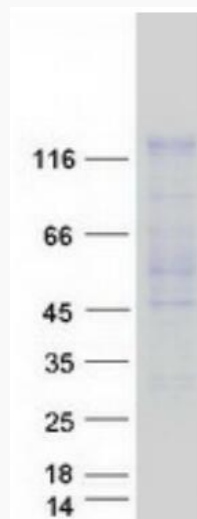
MIM	615143
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UniProt ID	Q9Y2K6
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Coomassie blue staining of purified USP20 protein.

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