Active Recombinant Human USP20, GST-tagged

Cat. No. USP20-162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human USP20 (amino acid residues 1-913), fused with N-terminal GST, was expressed in Insect sf21.
Species	Human
Source	Insect Cells
ProteinLength	1-913 a.a.
Description	There are two main classes of DUB, cysteine proteases and metalloproteases. Ubiquitin specific protease 20 (USP20) is a member of the cysteine protease enzyme family and cloning of the gene was first described by Nagase et al. (1999). USP20 has been shown to specifically deubiquitylate and stabilise Hypoxia-inducible factor (HIF)-1α, increasing expression of HIF-1α targeted genes, such as vascular endothelial growth factor (VEGF) (Li et al., 2005). USP20 also deubiquitylates tumour necrosis receptor-associated factor 6 (TRAF6) and Tax and suppresses interleukin 1β (IL-1β) and Tax-induced NF-κB activation.
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	Deubiquitylase Enzyme Assay: The activity of GST-USP20 was validated by determining the increase in fluorescence measured as a result of the enzyme catalysed cleavage of the fluorogenic substrate Ubiquitin-Rhodamine110-Glycine generating Ubiquitin and Rhodamine110-Glycine. Incubation of the substrate in the presence or absence of GST-USP20 was compared confirming the deubiquitylating

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	activity of GST-USP20.
Molecular Mass	128.7 kDa
Purity	>70% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	USP20 ubiquitin specific peptidase 20 [Homo sapiens]
Official Symbol	USP20
Synonyms	USP20; ubiquitin specific peptidase 20; ubiquitin specific protease 20; ubiquitin carboxyl-terminal hydrolase 20; KIAA1003; hVDU2; ubiquitin thioesterase 20; deubiquitinating enzyme 20; ubiquitin thiolesterase 20; VHL-interacting deubiquitinating enzyme 2; ubiquitin-specific-processing protease 20; pVHL-interacting deubiquitinating enzyme 2; VDU2; LSFR3A;
Gene ID	10868
mRNA Refseq	NM_001008563
Protein Refseq	NP_001008563
UniProt ID	Q9Y2K6
Chromosome Location	9q34.2

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Function	G-protein coupled receptor binding; cysteine-type endopeptidase activity; metal ion binding; peptidase activity; ubiquitin thiolesterase activity; zinc ion binding;

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