

Active Recombinant Human USP28, GST-tagged

Cat. No. USP28-188H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human USP28 (amino acid residues 1-1077), fused with N-terminal GST, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-1077 a.a.
Description	Ubiquitin carboxyl-terminal hydrolase 28 (Ubiquitin Specific Protease 28; USP28) is a member of the cysteine protease enzyme family and cloning of the human gene was first described by Nagase et al. (2000). USP28 shares 51.4% identity with USP25 and is highly expressed in the heart and skeletal muscle (Valero et al., 2001). Both USP28 and Checkpoint kinase Chk2 are required for DNA-damage-induced apoptosis, and they accomplish this partly through regulation of the p53 induction of proapoptotic genes. USP28 is required to stabilize Chk2, p53 binding protein 53BP1 and claspin in response to DNA double strand breaks (Zhang et al., 2006).
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-USP28 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-USP28 was compared confirming the deubiquitylating

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	activity of GST-USP28.
Molecular Mass	~149 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	USP28 ubiquitin specific peptidase 28 [Homo sapiens]
Official Symbol	USP28
Synonyms	USP28; ubiquitin specific peptidase 28; ubiquitin specific protease 28; ubiquitin carboxyl-terminal hydrolase 28; KIAA1515; ubiquitin thioesterase 28; deubiquitinating enzyme 28; ubiquitin thiolesterase 28; ubiquitin-specific-processing protease 28;
Gene ID	57646
mRNA Refseq	NM_020886
Protein Refseq	NP_065937
MIM	610748
UniProt ID	Q96RU2
Chromosome Location	11q23

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Function

cysteine-type peptidase activity; peptidase activity; protein binding; ubiquitin thiolesterase activity; ubiquitin thiolesterase activity; ubiquitin-specific protease activity;

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