

Active Recombinant Human USP36, GST-tagged

Cat. No. USP36-189H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human USP36 (amino acid residues 81-461), fused with N-terminal GST, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	81-461 a.a.
Description	There are two main classes of DUB; cysteine proteases and metalloproteases. Ubiquitin specific protease 36 (USP36) is a member of the cysteine protease enzyme family and cloning of the human gene was first described by Nagase et al. (2000). USP36 is primarily localized to the nucleoli, is required to maintain normal nucleolar structure and is highly expressed in skeletal muscle and testis. Nucleophosmin and fibrillarin are two nucleolar proteins that have been shown to undergo ubiquitylation, and are substrates for USP36. The deubiquitylating activity of USP36 controls transcriptional regulation and ribosome biogenesis in response to the changes in environmental conditions (Endo et al., 2009).
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-USP36 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

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presence or absence of GST-USP36 was compared confirming the deubiquitylating activity of GST-USP36.

Molecular Mass	~69 kDa
Purity	>84% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	USP36 ubiquitin specific peptidase 36 [Homo sapiens]
Official Symbol	USP36
Synonyms	USP36; ubiquitin specific peptidase 36; ubiquitin specific protease 36; ubiquitin carboxyl-terminal hydrolase 36; FLJ12851; KIAA1453; deubiquitinating enzyme 1; ubiquitin thioesterase 36; deubiquitinating enzyme 36; ubiquitin thiolesterase 36; ubiquitin-specific-processing protease 36; DUB1;
Gene ID	57602
mRNA Refseq	NM_025090
Protein Refseq	NP_079366
MIM	612543
UniProt ID	Q9P275

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Chromosome Location	17q25.3
Function	cysteine-type peptidase activity; peptidase activity; ubiquitin thiolesterase activity;