

Active Recombinant Human USP6, GST-tagged

Cat. No. USP6-154H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human USP6 (amino acid residues 529-1406), fused with N-terminal GST, was expressed in Insect (Sf21).
Species	Human
Source	Insect Cells
ProteinLength	529-1406 a.a.
Description	The deubiquitylating – or deubiquitinating – enzymes (DUBs) represent the largest family of DCEs and regulate ubiquitin dependent signalling pathways. The activities of the DUBs include the generation of free ubiquitin from precursor molecules, the recycling of ubiquitin following substrate degradation to maintain cellular ubiquitin homeostasis and the removal of ubiquitin or ubiquitin-like proteins (UBL) modifications through chain editing to rescue proteins from proteasomal degradation or to influence cell signalling events (Komander 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-USP6 CD(529-1406) 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-USP6 CD(529-1406) was compared confirming the deubiquitylating activity of GST-USP6 CD(529-1406).

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Molecular Mass	~125.3kDa
Purity	>88% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	USP6 ubiquitin specific peptidase 6 (Tre-2 oncogene) [Homo sapiens]
Official Symbol	USP6
Synonyms	USP6; ubiquitin specific peptidase 6 (Tre-2 oncogene); HRP1, ubiquitin specific protease 6 (Tre 2 oncogene); ubiquitin carboxyl-terminal hydrolase 6; TBC1D3 and USP32 fusion; Tre 2; Tre2; TRE17; ubiquitin carboxyl terminal hydrolase 6; tre-2 oncogene; proto-oncogene TRE-2; hyperpolymorphic gene 1; ubiquitin thioesterase 6; deubiquitinating enzyme 6; ubiquitin thiolesterase 6; ubiquitin specific peptidase 6-; ubiquitin-specific protease USP6; ubiquitin-specific-processing protease 6; ubiquitin specific protease 6 (Tre-2 oncogene); HRP1; TRE2; Tre-2; USP6-short;
Gene ID	9098
mRNA Refseq	NM_004505
Protein Refseq	NP_004496
MIM	604334
UniProt ID	P35125

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Chromosome Location	17p13
Pathway	Arf6 signaling events, organism-specific biosystem;
Function	Rab GTPase activator activity; calmodulin binding; cysteine-type endopeptidase activity; nucleic acid binding; peptidase activity; protein binding; ubiquitin thiolesterase activity; ubiquitin-specific protease activity;

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