

Active Recombinant Human USP15

Cat. No. USP15-185H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human USP15, isoform 2 (amino acid residues 1-952) was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-952 a.a.
Description	USP15 plays a role in the downregulation of the NF-κB pathway through deubiquitylating the NF-κB inhibitor IκBα and also regulates human papillomavirus type 16 E6 oncoprotein stability. Among USPs, USP15 is most closely related to USP4 which has recently been implicated in mRNA splicing and more distantly to USP11 which has been linked to DNA damage repair pathways (Harper et al., 2011). It has recently been demonstrated that USP15 plays an essential role in the stabilisation and activity of caspase-3 during Paclitaxel-induced apoptosis. It has therefore been proposed that USP15 may be a candidate diagnostic marker and therapeutic target for Paclitaxel-resistant cancers (Xu 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 USP15 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

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of USP15 was compared confirming the deubiquitylating activity of USP15.

Molecular Mass	~111 kDa
Purity	>80% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	USP15 ubiquitin specific peptidase 15 [Homo sapiens]
Official Symbol	USP15
Synonyms	USP15; ubiquitin specific peptidase 15; ubiquitin specific protease 15; ubiquitin carboxyl-terminal hydrolase 15; KIAA0529; UNPH4; ubiquitin thioesterase 15; deubiquitinating enzyme 15; ubiquitin thiolesterase 15; ubiquitin-specific-processing protease 15; UNPH-2; FLJ55073; MGC74854; MGC131982; MGC149838;
Gene ID	9958
mRNA Refseq	NM_001252078
Protein Refseq	NP_001239007
MIM	604731
UniProt ID	Q9Y4E8

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Chromosome Location	12q14
Function	cysteine-type endopeptidase activity; peptidase activity; ubiquitin thiolesterase activity; ubiquitin-specific protease activity;