

Active Recombinant Human OTUB1, GST-tagged

Cat. No. OTUB1-164H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human OTUB1 (amino acid residues 1-271), fused with N-terminal GST, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-271 a.a.
Description	OTUB1 was recently shown to modulate p53 stability through inhibition of UBE2D1. p53 is known to be ubiquitylated and destabilized by MDM2 and several other ubiquitin E3s and both deubiquitylated and stabilized by USP7 and USP10. Recent studies have shown that OTUB1 can directly suppress MDM2-mediated p53 ubiquitylation in cells and in vitro. Overexpression of OTUB1 drastically stabilizes and activates p53, leading to apoptosis and marked inhibition of cell proliferation in a p53-dependent manner (Sun et al., 2012).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	The activity of GST-OTUB1 was validated by the monitoring of mono-ubiquitin generation as a result of the enzyme catalysed cleavage of K48-linked di-ubiquitin. Incubation of the substrate in the presence or absence of GST-OTUB1 was compared confirming the deubiquitylating activity of GST-OTUB1.
Molecular Mass	58.1 kDa

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Purity	>98% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml
GENE INFORMATION	
Gene Name	OTUB1 OTU domain, ubiquitin aldehyde binding 1 [Homo sapiens]
Official Symbol	OTUB1
Synonyms	OTUB1; OTU domain, ubiquitin aldehyde binding 1; ubiquitin thioesterase OTUB1; FLJ20113; FLJ40710; otubain-1; OTU-domain Ubal-binding 1; deubiquitinating enzyme OTUB1; ubiquitin-specific protease otubain 1; ubiquitin-specific-processing protease OTUB1; OTU domain-containing ubiquitin aldehyde-binding protein 1; OTB1; OTU1; HSPC263; MGC4584; MGC111158;
Gene ID	55611
mRNA Refseq	NM_017670
Protein Refseq	NP_060140
MIM	608337
UniProt ID	Q96FW1
Chromosome Location	11q13.1
Function	NEDD8-specific protease activity; cysteine-type peptidase activity; omega peptidase

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activity; peptidase activity; protein binding; ubiquitin binding; ubiquitin-specific
protease activity;

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