

## Active Recombinant Human YOD1, GST-tagged

Cat. No. YOD1-177H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human YOD1 (amino acid residues 1-348), fused with N-terminal His, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-348 a.a.
<b>Description</b>	<p>OTU enzymes play important roles as negative-feedback regulators in NF-<math>\kappa</math>B signalling, interferon signalling and in p97 (cdc48)-mediated processes although the cellular functions of most OTU enzymes remain to be discovered. Ovarian tumour family DUBs contain a papain-like catalytic core of ~180 amino acids. In addition to their catalytic domain, many OTU members have additional ubiquitin-binding domains (UBDs). At least 20 different UBD families have been described, and knowledge of linkage-specific UBDs have provided the means to understand the roles of different ubiquitin linkages in cells (Licchesi et al., 2012).</p>
<b>Form</b>	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
<b>Bio-activity</b>	<p>Deubiquitylase Enzyme Assay: The activity of GST-OTU1 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-OTU1 was compared confirming the deubiquitylating</p>

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activity of GST-OTU1.

<b>Molecular Mass</b>	~65 kDa
<b>Purity</b>	>98% by SDS-PAGE
<b>Storage</b>	12 months at -70°C. Avoid multiple freeze/thaw cycles.
<b>Concentration</b>	0.5 mg/ml

## GENE INFORMATION

<b>Gene Name</b>	YOD1 YOD1 OTU deubiquinating enzyme 1 homolog ( <i>S. cerevisiae</i> ) [ Homo sapiens ]
<b>Official Symbol</b>	YOD1
<b>Synonyms</b>	DUBA8; OTUD2; PRO0907; RP11-164O23.1
<b>Gene ID</b>	<a href="#">55432</a>
<b>mRNA Refseq</b>	<a href="#">NM_018566.3</a>
<b>Protein Refseq</b>	<a href="#">NP_061036.3</a>
<b>MIM</b>	<a href="#">612023</a>
<b>UniProt ID</b>	<a href="#">Q5VVQ6</a>
<b>Chromosome Location</b>	1q32.2

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<b>Pathway</b>	Protein processing in endoplasmic reticulum, organism-specific biosystem;Protein processing in endoplasmic reticulum, conserved biosystem;
<b>Function</b>	protein binding;ubiquitin-specific protease activity;zinc ion binding;

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