

Active Recombinant Human OTUD3, GST-tagged

Cat. No. OTUD3-178H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human OTUD3 (amino acid residues 1-629), fused with N-terminal GST, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-629 a.a.
Description	There are two main classes of DUB, cysteine proteases and metalloproteases. OTUD3 is a cysteine protease and is a member of the OTU superfamily of proteins (Balakirev et al., 2003). Cloning of the human gene was first described by Seki et al. (1999). OTU enzymes play important roles as negative-feedback regulators in NF-κB signalling, interferon signalling and in p97 (cdc48)-mediated processes although the cellular functions of most OTU enzymes remain to be discovered.
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-OTUD3 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-OTUD3 was compared confirming the deubiquitylating activity of GST-OTUD3.

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Molecular Mass	~72 kDa
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	OTUD3 OTU domain containing 3 [Homo sapiens]
Official Symbol	OTUD3
Synonyms	OTUD3; OTU domain containing 3; OTU domain-containing protein 3; DUBA4; KIAA0459; RP11-460G22.1;
Gene ID	23252
mRNA Refseq	NM_015207
Protein Refseq	NP_056022
MIM	611758
UniProt ID	Q5T2D3
Chromosome Location	1p36.13

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