

Recombinant Mouse Otub1 Protein, MYC/DDK-tagged

Cat. No. Otub1-323M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse OTU domain, ubiquitin aldehyde binding 1 (Otub1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Hydrolase that can specifically remove compared to 'Lys-48'-linked conjugated ubiquitin from proteins and plays an important regulatory role at the level of protein turnover by preventing degradation. Regulator of T-cell anergy, a phenomenon that occurs when T-cells are rendered unresponsive to antigen rechallenge and no longer respond to their cognate antigen. Acts via its interaction with RNF128/GRAIL. Surprisingly, it regulates RNF128-mediated ubiquitination, but does not deubiquitinate polyubiquitinated RNF128. Deubiquitinates estrogen receptor alpha (ESR1). Mediates deubiquitination of 'Lys-48'-linked polyubiquitin chains, but not 'Lys-63'-linked polyubiquitin chains. Not able to cleave di-ubiquitin. Also capable of removing NEDD8 from NEDD8 conjugates, but with a much lower preference compared to 'Lys-48'-linked ubiquitin.
Molecular Mass	31.3 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Otub1 OTU domain, ubiquitin aldehyde binding 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Otub1
Synonyms	Otub1; OTU domain, ubiquitin aldehyde binding 1; AI850305; ubiquitin thioesterase OTUB1; OTU domain-containing ubiquitin aldehyde-binding protein 1; deubiquitinating enzyme OTUB1; otubain 1; ubiquitin-specific-processing protease OTUB1; EC 3.4.19.12
Gene ID	107260
mRNA Refseq	NM_134150
Protein Refseq	NP_598911
UniProt ID	Q7TQI3

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