

Recombinant Human OTU Domain, Ubiquitin Aldehyde Binding 1

Cat. No. OTUB1-482H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant OTUB1 protein was expressed in *E.coli* and purified by using conventional chromatography techniques. MW = 33.4 kDa (291aa).

Species

Human

Source

E.coli

Description

Otubain 1, also known as OTUB1, is a member of the OUT (ovarian tumor) superfamily of predicted cysteine proteases and inhibits cytokine gene transcription in the immune system via its interaction with a ubiquitin protease and E3 ubiquitin ligase. This protein is a highly specific ubiquitin iso-peptidase, and cleaves ubiquitin from branched poly-ubiquitin chains but not from ubiquitinated substrates. It is proposed to function in specific ubiquitin-dependent pathways, possibly by providing an editing function of polyubiquitin chain growth.

Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MAAEPPQQQK QEPLGSDSEG VNCLAYDEAI
 MAQQDRIQQE IAVQNPLVSE RLELSVLYKE YAEDDNIYQQ KIKDLHKKYS
 YIRKTRPDGN CFYRAFGFSH LEALLDDSK E LQRFKAVSAK SKEDLVSQGF
 TEFTIEDFHN TFMDLIEQVE KQTSVADLLA SFNDQSTSDY LVVYLRLLTS
 GYLQRESKFF EHFIEGGRTV KEFCQQEVEP MCKESDHIHI IALAQALSVS
 IQVEYMDRGE GGTTNPHIFP EGSEPKVYLL YRPGHYDILY K

Form

Liquid. In 20 mM Tris buffer (pH 8.0) containing 10% glycerol.

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Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	OTUB1 OTU domain, ubiquitin aldehyde binding 1 [Homo sapiens]
Synonyms	OTUB1; OTU domain, ubiquitin aldehyde binding 1; OTB1; OTU1; HSPC263; MGC4584; FLJ20113; FLJ40710; MGC111158; OTU-domain Ubal-binding 1; ubiquitin-specific protease otubain 1; Ubiquitin thioesterase OTUB1; Otubain-1; OTU domain-containing ubiquitin; aldehyde-binding protein 1; Ubiquitin-specific-processing protease; Deubiquitinating enzyme OTUB1
Gene ID	55611
mRNA Refseq	NM_017670
Protein Refseq	NP_060140
MIM	608337
UniProt ID	Q96FW1
Chromosome Location	11q13.1
Function	cysteine-type peptidase activity; peptidase activity

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