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## Recombinant human Otubain-1/OTUB1 protein

Catalog Number: ATGP0354

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-271aa

#### **UniProt No.**

096FW1

#### **NCBI Accession No.**

NP 060140

#### **Alternative Names**

ubiquitin thioesterase Otubain 1, OTB1, OTu1, ubiquitin thioesterase Otubain 1 Deubiquitinating enzyme OTuB1, OTu domain containing ubiquitin aldehyde binding protein 1, Otubain 1, ubiquitin specific processing protease OTuB1, ubiquitin thioesterase OTuB1

### **PRODUCT SPECIFICATION**

## **Molecular Weight**

33.4 kDa (291aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

## Tag

His-Tag

## **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **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



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ubiquitin-dependent pathways, possibly by providing an editing function of polyubiquitin chain growth. Recombinant OTuB1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

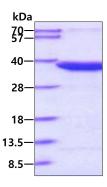
<MGSSHHHHHH SSGLVPRGSH> MAAEEPQQQK QEPLGSDSEG VNCLAYDEAI MAQQDRIQQE IAVQNPLVSE RLELSVLYKE YAEDDNIYQQ KIKDLHKKYS YIRKTRPDGN CFYRAFGFSH LEALLDDSKE LQRFKAVSAK SKEDLVSQGF TEFTIEDFHN TFMDLIEQVE KQTSVADLLA SFNDQSTSDY LVVYLRLLTS GYLQRESKFF EHFIEGGRTV KEFCQQEVEP MCKESDHIHI IALAQALSVS IQVEYMDRGE GGTTNPHIFP EGSEPKVYLL YRPGHYDILY K

#### **General References**

Balakirev MY., et al. (2003) EMBO Rep. 4(5):517-22. Soares L., et al. (2004) Nat Immunol. 5(1):45-54.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

