

Product datasheet

Recombinant Human OTUB1 protein ab87682

1 图像

概述

|      |                           |
|------|---------------------------|
| 产品名称 | Recombinant人OTUB1 protein |
| 蛋白长度 | Full length protein       |

描述

|    |                  |
|----|------------------|
| 性质 | Recombinant      |
| 来源 | Escherichia coli |

氨基酸序列

|    |  |
|----|--|
| 种属 | Human  |
| 序列 | <p>MGSSHHHHHH SGLVPRGSH MAAEPPQQK</p> <p>QEPLGSDSEG VNCLAYDEAI MAQQDRIQQE</p> <p>IAVQNPLVSE RLELSVLYKE YAEDDNIYQQ</p> <p>KIKDLHKKYS YIRKTRPDGN CFYRAFGFSH</p> <p>LEALLDDSKE LQRFKAVSAK SKEDLVSQGF</p> <p>TEFTIEDFHN TFMDLIEQVE KQTSVADLLA</p> <p>SFNDQSTSDY LVVYLRLLTS GYLQRESKFF</p> <p>EHFIEGGRTV KEFCQEVVEP MCKESDHIHI</p> <p>IALAQALSVS IQVEYMDRGE GGTTNPHIFP</p> <p>EGSEPKVYLL YRPGHYDILY K</p> |

技术指标

Our [Abpromise guarantee](#) covers the use of **ab87682** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|    |   |
|----|---|
| 应用 | SDS-PAGE  |
| 纯度 | > 95 % SDS-PAGE.<br>ab87682 is purified using conventional chromatography techniques. |
| 形式 | Liquid  |

制备和贮存

|        |   |
|--------|---|
| 稳定性和存储 | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw |
|--------|---|

cycles.

Preservative: None

Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0

## 常规信息

### 功能

Hydrolase that can remove 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, a crucial inductor of CD4 T-cell anergy. Isoform 1 destabilizes RNF128, leading to prevent anergy. In contrast, isoform 2 stabilizes RNF128 and promotes anergy. 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.

### 组织特异性

Isoform 1 is ubiquitous. Isoform 2 is expressed only in lymphoid tissues such as tonsils, lymph nodes and spleen, as well as peripheral blood mononuclear cells.

### 序列相似性

Belongs to the peptidase C65 family.

Contains 1 OTU domain.

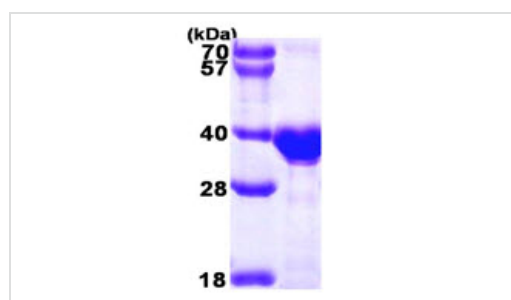
### 结构域

In addition to ubiquitin-binding at the Cys-91 active site, a proximal ubiquitin-binding site is also present at Cys-23. Occupancy of the active site is needed to enable tight binding to the second site. Distinct binding sites for the ubiquitins may allow to discriminate among different isopeptide linkages (i.e. 'Lys-48'-, 'Lys-63'-linked polyubiquitin) in polyubiquitin substrates and achieve linkage-specific deubiquitination.

### 细胞定位

Cytoplasm.

## 图片



SDS-PAGE - OTUB1 protein (His tag) (ab87682)

15% SDS-PAGE showing ab87682 at approximately 33.4 kDa (3 $\mu$ g).

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