

## Active Recombinant Human OTUD6A, His-tagged

**Cat. No.** OTUD6A-166H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human OTUD6A (amino acid residues 1-288), fused with N-terminal His, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 1-288 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | OTUD6A is a cysteine protease and is a member of the OTU (ovarian tumour) superfamily of proteins (Balakirev et al., 2003). Cloning of the human gene was first described by Kayagaki et al. (2007). 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. |
| <b>Form</b>             | 50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>     | Deubiquitylase Enzyme Assay: The activity of 6His-OTUD6A 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 6His-OTUD6A was compared confirming the deubiquitylating activity of 6His-OTUD6A.     |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| <b>Molecular Mass</b> | 35.8 kDa                                               |
| <b>Purity</b>         | >98% by SDS-PAGE                                       |
| <b>Storage</b>        | 12 months at -70°C. Avoid multiple freeze/thaw cycles. |
| <b>Concentration</b>  | 0.5 mg/ml                                              |

## GENE INFORMATION

|                            |                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | OTUD6A OTU domain containing 6A [ Homo sapiens ]                                                                     |
| <b>Official Symbol</b>     | OTUD6A                                                                                                               |
| <b>Synonyms</b>            | OTUD6A; OTU domain containing 6A; OTU domain-containing protein 6A; DUBA2; FLJ25831; HSHIN6; DUBA-2; HIN-6 protease; |
| <b>Gene ID</b>             | <a href="#">139562</a>                                                                                               |
| <b>mRNA Refseq</b>         | <a href="#">NM_207320</a>                                                                                            |
| <b>Protein Refseq</b>      | <a href="#">NP_997203</a>                                                                                            |
| <b>MIM</b>                 | <a href="#">300714</a>                                                                                               |
| <b>UniProt ID</b>          | <a href="#">Q7L8S5</a>                                                                                               |
| <b>Chromosome Location</b> | Xq13.1                                                                                                               |

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