# OTUD7B Protein, Human (Sf9)

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| **Cat. No.:** | HY-P701465 |
| **Synonyms:** | OTUD7B; OTU domain-containing protein 7B; Cellular zinc finger anti-NF-kappa-B protein; Cezanne; Zinc finger A20 domain-containing protein 1; Zinc finger protein Cezanne |
| **Species:** | Human |
| **Source:** | Sf9 insect cells |
| **Accession:** | Q6GQQ9 (T2-F843) |
| **Gene ID:** | 56957 |
| **Molecular Weight:** | |

## PROPERTIES

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| **Appearance** | Solution. |
| **Formulation** | Supplied as a 0.22 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | Please use rapid thawing with running water to thaw the protein. |
| **Storage & Stability** | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | Shipping with dry ice. |

## DESCRIPTION

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| **Background** | OTUD7B protein acts as a negative regulator of the non-canonical NF-kappa-B pathway by facilitating the deubiquitination of TRAF3, a suppressor of NF-kappa-B signaling, thereby dampening B-cell responses. In the context of non-canonical NF-kappa-B stimuli, OTUD7B targets 'Lys-48'-linked polyubiquitin chains on TRAF3, preventing its proteolysis and averting excessive activation of the non-canonical NF-kappa-B pathway. This negative regulatory role extends to mucosal immunity against infections. Additionally, OTUD7B modulates T cell receptor (TCR) signaling by deubiquitinating ZAP70, influencing NF-kappa-B activation in T cells. Furthermore, OTUD7B contributes to T cell homeostasis, playing a crucial role in normal T cell responses and the production of key cytokines such as IFNG and IL2. The protein also exhibits deubiquitinating activity towards EGFR and demonstrates versatility in hydrolyzing various polyubiquitin chain linkages, including 'Lys-11', 'Lys-48', and 'Lys-63'-linked polyubiquitin chains. While it exhibits a higher catalytic rate with 'Lys-11'-linked chains in vitro, the physiological significance of this preference remains uncertain. |



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA