

OTUD2 Protein, Human

Cat. No.:	HY-P701482
Synonyms:	YOD1; Ubiquitin thioesterase OTU1; DUBA-8; HIV-1-induced protease 7; HIN-7; HsHIN7; OTU domain-containing protein 2
Species:	Human
Source:	E. coli
Accession:	Q5VVQ6 (F2-V348)
Gene ID:	55432
Molecular Weight:	

PROPERTIES

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.
Reconstitution	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

Background	<p>OTUD2, a hydrolase with pivotal roles in cellular processes, is actively involved in endoplasmic reticulum-associated degradation (ERAD) by removing conjugated ubiquitin from misfolded luminal proteins. It contributes to the ERAD mechanism by potentially trimming ubiquitin chains on associated substrates, facilitating their passage through the VCP/p97 pore. Specifically, OTUD2 exhibits deubiquitination activity towards 'Lys-27', 'Lys-29', and 'Lys-33'-linked polyubiquitin chains, as well as 'Lys-11'-linked ubiquitin chains. The ability to cleave both polyubiquitin and di-ubiquitin underscores its versatility. Beyond ERAD, OTUD2 may play a crucial role in macroautophagy, influencing the clearance of damaged lysosomes. Its involvement in autophagy includes recruiting PLAA, UBXN6, and VCP to damaged lysosome membranes adorned with K48-linked ubiquitin chains, facilitating their removal and promoting autophagosome formation. This multifaceted functionality highlights OTUD2's significance in cellular quality control mechanisms.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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