

# **OTUD2 Polyclonal Antibody**

Catalog # AP71659

#### **Product Information**

Application WB
Primary Accession Q5VVQ6
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 38322

#### **Additional Information**

**Gene ID** 55432

Other Names YOD1; DUBA8; HIN7; OTUD2; Ubiquitin thioesterase OTU1; DUBA-8;

HIV-1-induced protease 7; HIN-7; HsHIN7; OTU domain-containing protein 2

Dilution WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

#### **Protein Information**

Name YOD1

**Synonyms** DUBA8, HIN7, OTUD2

**Function** Hydrolase that can remove conjugated ubiquitin from proteins and

participates in endoplasmic reticulum-associated degradation (ERAD) for misfolded lumenal proteins. May act by triming the ubiquitin chain on the associated substrate to facilitate their threading through the VCP/p97 pore. Ubiquitin moieties on substrates may present a steric impediment to the threading process when the substrate is transferred to the VCP pore and threaded through VCP's axial channel. Mediates deubiquitination of 'Lys-27'-, 'Lys-29'- and 'Lys-33'-linked polyubiquitin chains. Also able to hydrolyze 'Lys-11'-linked ubiquitin chains. Cleaves both polyubiquitin and di-ubiquitin. May play a role in macroautophagy, regulating for instance the clearance of damaged lysosomes. May recruit PLAA, UBXN6 and VCP to damaged lysosome membranes decorated with K48-linked ubiquitin chains and remove these

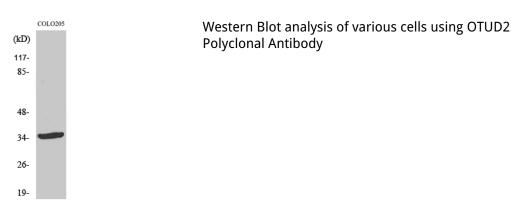
chains allowing autophagosome formation (PubMed:27753622).

**Cellular Location** Cytoplasm. Note=Recruited to damaged lysosomes decorated with K48-linked

## **Background**

Hydrolase that can remove conjugated ubiquitin from proteins and participates in endoplasmic reticulum-associated degradation (ERAD) for misfolded lumenal proteins. May act by triming the ubiquitin chain on the associated substrate to facilitate their threading through the VCP/p97 pore. Ubiquitin moieties on substrates may present a steric impediment to the threading process when the substrate is transferred to the VCP pore and threaded through VCP's axial channel. Mediates deubiquitination of 'Lys-27'-, 'Lys-29'-and 'Lys-33'-linked polyubiquitin chains. Also able to hydrolyze 'Lys-11'-linked ubiquitin chains. Cleaves both polyubiquitin and di-ubiquitin. May play a role in macroautophagy, regulating for instance the clearance of damaged lysosomes. May recruit PLAA, UBXN6 and VCP to damaged lysosome membranes decorated with K48-linked ubiquitin chains and remove these chains allowing autophagosome formation (PubMed: 27753622).

### **Images**



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